JH CRUZE Series II

JH Cruze Series II
Owner's Handbook

GM Holden Ltd, ABN 84 006 893 232 (hereinafter Holden)

Change of name, address or ownership

In the event of a Safety Recall, or for various reasons, Holden may need to contact you as the owner of this vehicle.

If you have recently changed your address, or name, or purchased this vehicle second-hand, please help us to help you by taking a few minutes to fill in and mail the forms at the beginning of the Service/warranty booklet.

For information about GM Holden's privacy policy or to update owner details online, please visit Holden's website at www.holden.com.au

Note Please refer to the inside front cover of the Service/ warranty booklet for the Vehicle Identification Certificate.

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Introduction

We thank you for choosing Holden and want to assure you of our continuing interest in your driving pleasure and satisfaction.

This handbook applies to the current Cruze model. Therefore, due to different models and options, you may find reference in this Handbook to some equipment not fitted to your own vehicle.

Please note that all information, illustrations and specifications in this Handbook are based on the latest production information available at the time of printing. Holden reserves the right to make changes at any time without notice and without incurring any obligation.

Introduction

Your vehicle is a designed combination of advanced technology, safety, environmental friendliness and economy.

This Owner's Manual provides you with all the necessary information to enable you to drive your vehicle safely and efficiently.

Make sure your passengers are aware of the possible risk of accident and injury which may result from improper use of the vehicle.

Using this manual

- The "In brief" section will give you an initial overview.
- The table of contents at the beginning of this manual and within each chapter shows where the information is located.
- The index will enable you to search for specific information.
- Directional data, e.g. left or right, or front or back, always relate to the direction of travel.
- Depending on the model variant, integrated special equipment and accessories, the scope of equipment of your vehicle can differ from the descriptions in this Owner's Manual.
- iPod® is a registered trademark of Apple Inc.
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Danger, Warnings and Cautions

⚠Danger

Text marked ⚠**Danger** provides information on risk of fatal injury. Disregarding this information may endanger life.

⚠Warning

Text marked ⚠**Warning** provides information on risk of accident or injury. Disregarding this information may lead to injury.

Caution

Text marked **Caution** provides information on possible damage to the vehicle. Disregarding this information may lead to vehicle damage.

Symbols

Page references are indicated with ⇨. ⇨ means "see page".

In brief

Initial drive information

Vehicle unlocking

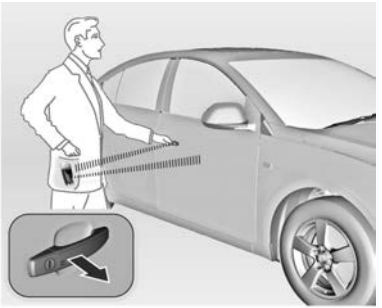
Remote control

Press button to unlock the doors and boot compartment. Open the doors by pulling the handles, to open the boot compartment, press the button under the boot lid moulding.

Press button, only the boot lid is unlocked and opens.

Remote control ⇨ 18, Central locking system ⇨ 20, Load compartment ⇨ 24.

Electronic key



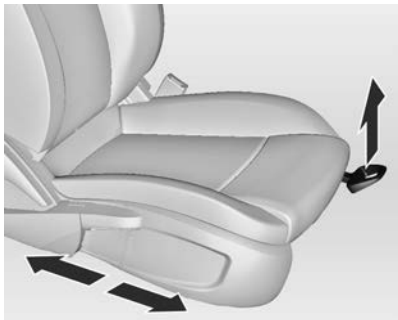
When in possession of the electronic key, simply pulling the door handle will unlock the vehicle and open the door. To open the boot lid, press the button under the moulding.

Electronic key system ⇨ 19.

Seat adjustment

⚠Warning
Only drive with the seat correctly adjusted.

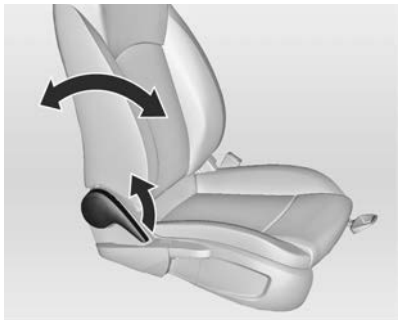
Seat positioning



Pull handle, slide seat, release handle.

Seat adjustment ⇨ 34, Seat position ⇨ 33.

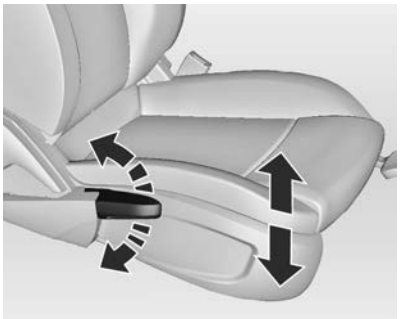
Seat backrests



Pull lever, adjust inclination and release lever. Allow the seat to engage audibly. Do not lean on backrest when adjusting.

Seat adjustment ⇨ 34, Seat position ⇨ 33.

Seat height

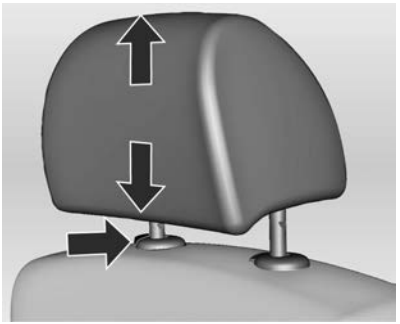


Lever pumping motion

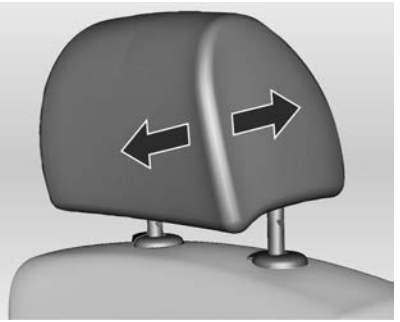
up = higher
down = lower

Seats ⇨ 34, Seat position ⇨ 33.

Head restraint adjustment



For height adjustment, pull the head restraint upward. To move down press the catch and push the head restraint downwards.



For horizontal adjustment, pull the head restraint forward, it engages in 3 positions. To bring into rear position automatically, pull head restraint close forward.

Head restraints ⇨ 32.

Seat belt

Pull out the seat belt and engage in belt buckle. The seat belt must not be twisted and must fit close against the body. The backrest must not be tilted back too far (maximum approx. 25 °).

To release belt, press red button on belt buckle.

Seat belts ⇨ 36, Airbag system ⇨ 40, Seat position ⇨ 33.

Mirror adjustment

Interior mirror

Adjust the lever on the underside to reduce glare.

Interior mirror ⇨ 29.

Exterior mirrors

Select the relevant exterior mirror and adjust.

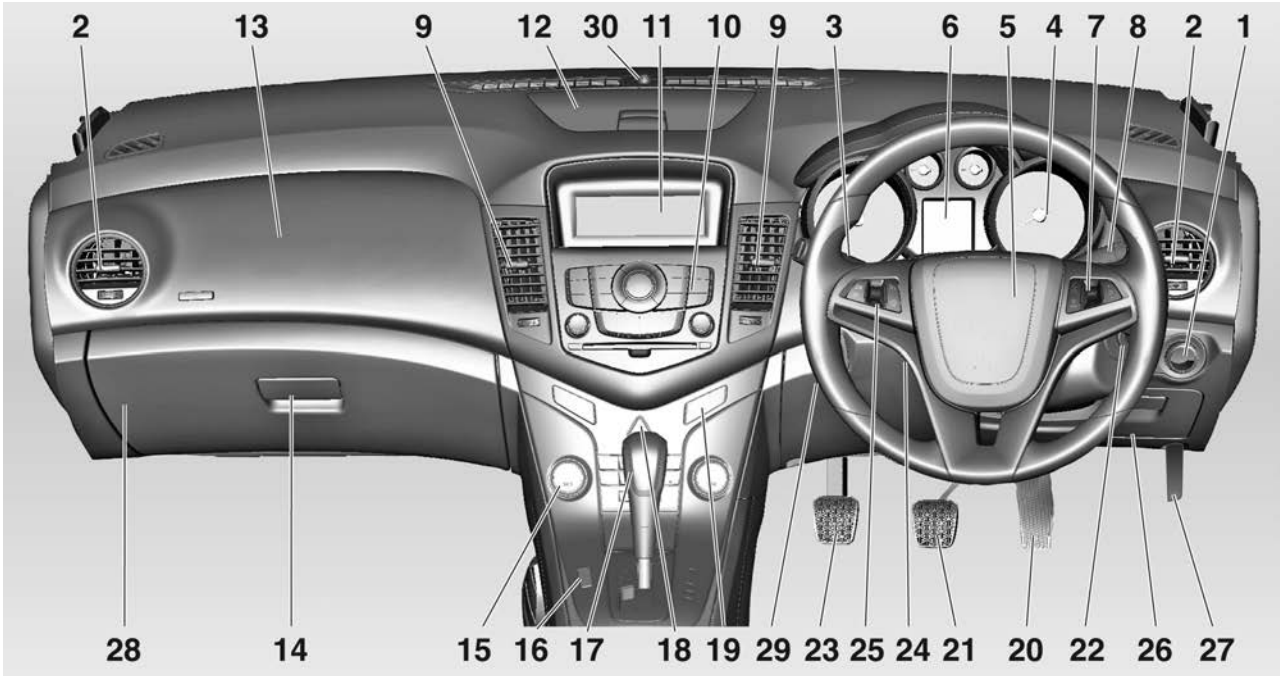
Electric adjustment ⇨ 28, Convex exterior mirrors ⇨ 28, Folding exterior mirrors ⇨ 28, Heated exterior mirrors ⇨ 28.

Steering wheel adjustment

Unlock lever, adjust steering wheel, then engage lever and ensure it is fully locked. Do not adjust steering wheel unless vehicle is stationary and steering wheel lock has been released.

Airbag system ⇨ 40, Ignition positions ⇨ 120.

Instrument panel overview



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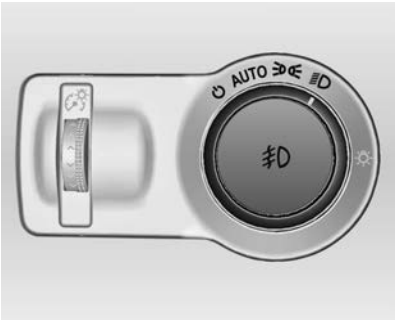
Exterior lighting



Turn

AUTO = Automatic light control: Headlights are switched on and off automatically depending on external light conditions.

⏻ = activation or deactivation of the automatic light control, switch turns back to **AUTO**

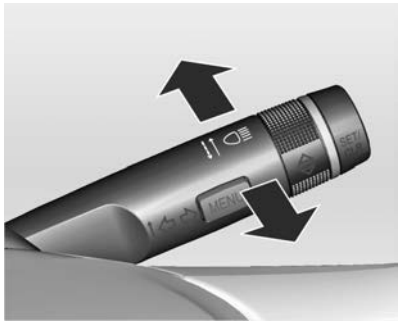
≡D = parking lights

≡D = headlights and parking lights

Press
⥣D = front fog lights (If fitted)

Lighting ⇨ 78.

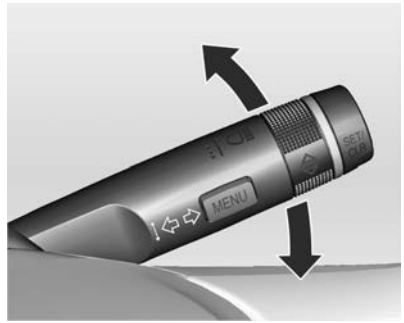
Headlight flash, high beam and low beam



headlight flash	=	pull lever
high beam	=	push lever
low beam	=	pull lever from high beam position

High beam ⇨ 79, Headlight flash ⇨ 79, Automatic light control ⇨ 78.

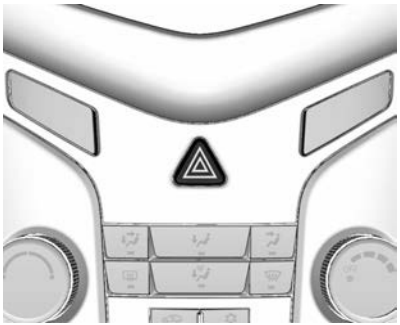
Turn and lane-change signals



left	=	lever up
right	=	lever down

Turn and lane-change signals ⇨ 80.

Hazard warning flashers



Operated with the ⚠ button.

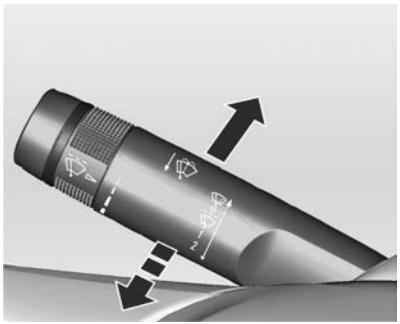
Hazard warning flashers ⇨ 79.

Horn

Press 📯.

Washer and wiper systems

Windscreen wipers



2 = fast
1 = slow
⩔ = timed interval wiping
O = off

For a single swipe when the windscreen wipers are off, push the lever up.

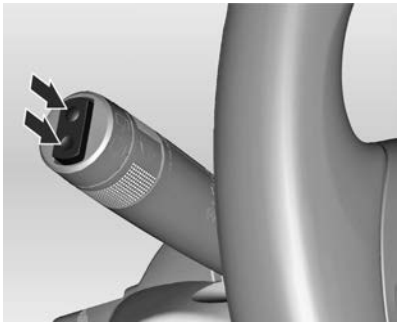
Windscreen wipers ⇨ 55, Wiper replacement ⇨ 153.

Windscreen washer system

Pull lever.

Windscreen washer system ⇨ 55, Washer fluid ⇨ 152.

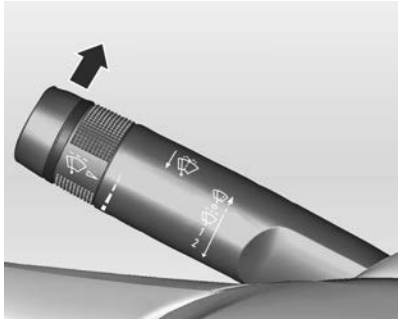
Rear window wiper and washer systems



Press the rocker switch to activate the rear window wiper:

upper position	=	intermittent operation
lower position	=	continuous operation
middle position	=	off

Rear window wiper/washer ⇨ 56.



Push lever.

Washer fluid is sprayed on the rear window and the wiper wipes a few times.

Climate control

Heated rear window, heated exterior mirrors

Heating is operated by pressing the button.

Heated rear window ⇨ 30.

Demisting and defrosting the windows

Press button .

Set temperature control to warmest level.

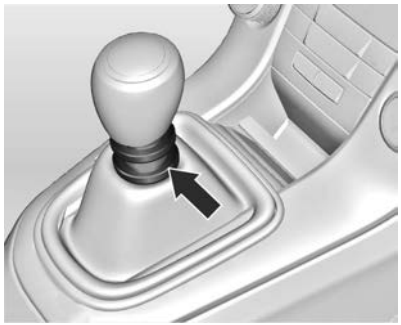
Cooling on.

Heated rear window on.

Climate control system ⇨ 113.

Transmission

Manual transmission



Reverse: when the vehicle is stationary, depress the clutch pedal and then pull up the ring on the shift lever and engage the gear.

If the gear does not engage, set the lever in neutral, release the clutch pedal and depress again; then repeat gear selection.

Manual transmission ⇨ 127.

Automatic transmission

P = park
R = reverse
N = neutral
D = drive

Manual mode: move shift lever from **D** to the left.

+ = higher gear
− = lower gear

The shift lever can only be moved out of **P** when the ignition is on and the brake pedal is applied. To engage **P** or **R**, push the release button.

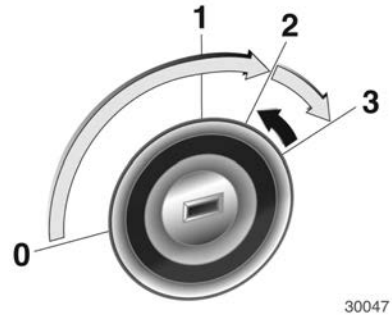
Automatic transmission ⇨ 124.

Starting off

Check before starting off

- Tyre pressure and condition ⇨ 166.
- Engine oil level and fluid levels ⇨ 149.
- All windows, mirrors, exterior lighting and number plates are free from dirt, snow and ice and operational.
- Proper position of seats, seat belts and mirrors ⇨ 33, ⇨ 38, ⇨ 28.
- Check brake function at low speed, particularly if the brakes are wet.

Starting the engine



- Turn key to position 1.
- Move the steering wheel slightly to release the steering wheel lock.
- Manual transmission: operate clutch.
- Automatic transmission: operate brake and move shift lever to **P** or **N**.
- Do not accelerate.

- Diesel engine: turn the key to position **2** for preheating until control indicator ⟲ goes out.
- Turn key to position **3** and release when engine is running.

Before restarting or to switch off the engine, turn key back to **0**.

Starting engine with the Start/Stop button

- The electronic key must be inside the vehicle.
- Manual transmission: depress the clutch pedal.
- Automatic transmission: depress the brake pedal and move the shift lever to **P** or **N**.
- Do not accelerate.
- Press the Start/Stop button and release when the engine is running. The green LED will illuminate as soon as the engine is running.

To switch off the engine, press the button again whilst the engine is running.

Parking

- Always apply parking brake without pressing release button. Apply as firmly as possible on a downhill slope or uphill slope. Operate foot brake at same time to reduce operating force.
- Switch off the engine and ignition. Turn the ignition key to 0, remove and turn the steering wheel until the steering wheel lock is felt to engage. Vehicles with electronic key system: with the vehicle stationary, press the **Start/Stop** button and open the driver's door.

  For vehicles with automatic transmission, move shift lever to **P** position and remove key.
- If the vehicle is on a level surface or uphill slope, engage first gear (for vehicles fitted with manual transmission) or set the shift lever to **P** (for vehicles fitted with automatic transmission) before switching off the ignition. On an uphill slope, turn the front wheels away from the kerb.

  If the vehicle is on a downhill slope, engage reverse gear or set the shift lever to **P** before switching off the ignition. Turn the front wheels towards the kerb.
- Close windows.
- Lock the vehicle with button on the remote control or, for vehicles with electronic key system, touch the sensor on the door handle.
- Activate the anti-theft alarm system ⇨ 26.
- Do not park the vehicle on an easily flammable surface. The high temperature of the exhaust system could ignite the surface.
- The engine cooling fans may run after the engine has been switched off ⇨ 144.
- Diesel engines: after running at high engine speeds or with high engine loads, operate the engine briefly at a low load or run for about 1 to 2 minutes at idle speed before switching off in order to protect the turbocharger.

Keys, locks ⇨ 18.

Keys, doors and windows

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Doors 24
Vehicle security 26
Exterior mirrors 28
Interior mirrors 29
Windows 29

Keys, locks

Keys

Replacement keys

The key number is specified on a detachable tag.

Locks ⇨ 179.

Key with foldaway key section

Press button to extend. To fold the key, first press the button.

Remote control

Used to operate:

- Central locking system
- Anti-theft alarm system
- Boot

The remote control has a range of approx. 25 metres. This range can be affected by outside influences.

The hazard warning flashers confirm operation.

Handle with care, protect it from moisture and high temperatures and avoid unnecessary operation.

Fault

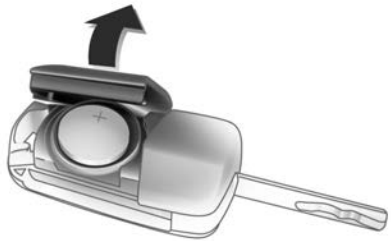
If the central locking system cannot be operated with the remote control, it may be due to the following:

- Range exceeded,
- Battery voltage too low,
- Frequent, repeated operation of the remote control while not in range, which will require resynchronisation,
- Overloading the central locking by operating at frequent intervals, the power supply is interrupted for a short time,
- Interference from higher-power radio waves from other sources.

Opening the vehicle ⇨ 20.

Remote control battery replacement

Replace the battery as soon as the range reduces, or as per the service schedule.



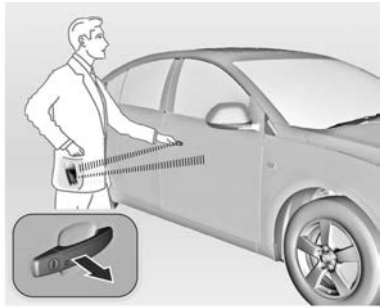
Extend the key and open the unit. Replace the battery (battery type CR 20 32), paying attention to the installation position. Close the unit and synchronise.

Remote control synchronisation

After replacing the battery, unlock the door with the key in the lock. The remote control will be synchronised when you switch on the ignition.

Electronic key system

(If fitted)



Makes operation of the following possible without the use of the mechanical key.

- Central locking system
- Anti-theft alarm system
- Ignition and starter

The electronic key simply needs to be on the driver's person.

Note
Do not put the electronic key in the boot or in front of the Info-Display.

The sensor fields in the door handles must be kept clean to ensure unrestricted functionality.

Starting the engine ⇨ 120.

Remote control

The electronic key also has a remote control feature.

Replacing battery in electronic key

Replace the battery as soon as the system no longer operates properly or the range is reduced. The need for battery replacement is indicated by an error code in the Driver Information Centre ⇨ 70.

Batteries do not belong in household waste. They must be disposed of at an appropriate recycling collection point.

Remote control battery replacement ⇨ 18.

Replace the battery (battery type CR 2032), noting the installation position. Engage caps.

Remote control synchronisation

The remote control synchronises itself automatically during every starting procedure.

Fault

If the central locking cannot be operated or the engine cannot be started, the cause may be one of the following:

- Fault in remote control,
- Electronic key out of reception range,
- Battery voltage too low,
- Interference from higher-power radio waves from other sources.

Try repositioning the electronic key, or contact your Holden Dealer.

Central locking system

Unlocks and locks doors, boot and fuel filler flap.

A pull on an interior door handle unlocks and opens the door.

Note
In the event of an accident of a certain severity, the vehicle unlocks automatically.

Unlocking

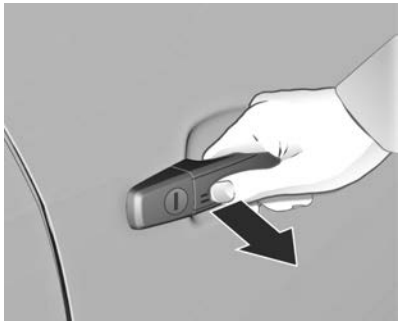
Remote control

Press button.

It is configurable to unlock only the driver's door, fuel filler flap and boot by pressing button once and to unlock all by pressing button twice.

Settings can be changed in the menu **Settings** in the Info-Display. Vehicle personalisation ⇨ 73.

Electronic key system



Pull a door handle or press the button under the boot lid moulding.

The electronic key must be outside the vehicle within a range of approximately one metre of the relevant door side.

Locking

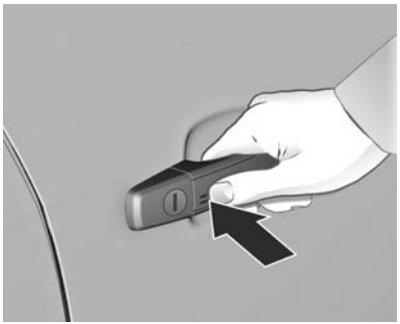
Remote control

Close doors, boot and fuel filler flap.

Press button.

If the driver's door is not closed properly, the central locking system will not work on driver's door. Activation or deactivation of the remote control is listed in the menu **Settings** in the Info-Display. Vehicle personalisation ⇨ 73.

Electronic key system



Touch the sensor field in the door handle of one of the front doors.

The electronic key must be outside the vehicle, within a range of approximately one metre to the relevant door. The spare electronic key must not be inside the vehicle.

Two seconds must pass before the vehicle can be unlocked. Within this time, it is possible to check that the vehicle is locked.

Note
The vehicle is not automatically locked.

Unlocking the boot lid

5 Door hatchback

Press button ⍐ once or twice, depending on the selected setting. The tailgate will unlock.

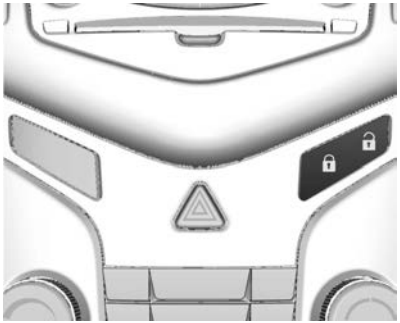
Vehicle personalisation ⇨ 73.

4 Door sedan

Press button ⌓ when the ignition is off. The boot lid will unlock and open, whilst all other doors remain locked.

Central locking buttons

Locks or unlocks all doors, the load compartment and fuel filler flap.



Press the button to lock.
Press the button to unlock.

Fault in remote control system or electronic key system

Unlocking

Manually unlock the driver's door by turning the key in the lock. Switch on the ignition and press the central locking button to unlock all doors, boot and fuel filler flap. To deactivate the anti-theft locking system, switch on the ignition.

Locking

Switch on the ignition and press the central locking button to lock the doors, boot and fuel filler flap. Then switch off the ignition, close the driver's door and lock it from the outside with the key.

Fault in central locking system

Unlocking

Manually unlock the driver's door by turning the key in the door barrel. The other doors can be opened by using the interior handle twice. The fuel filler flap can't be opened. To deactivate the anti-theft locking system, switch on the ignition.

Locking

Push inside locking knob of all doors except driver's door. Then close the driver's door and lock it from the outside with the key. The fuel filler flap and boot lid cannot be locked.

Automatic Door Locks

Automatic locking after driving off

This security feature can be configured to automatically lock all doors, boot and fuel filler flap as soon as the vehicle starts to drive.

Settings can be changed in the menu **Settings** in the Info-Display. Vehicle personalisation ⇨ 73.

Child locks

⚠Warning

Use the child locks whenever children are occupying the rear seats.

Using a key or suitable screwdriver, turn the child locks in the rear doors into horizontal position. Doors cannot be opened from inside. For deactivation turn the child locks into vertical position.

Doors

Boot

Opening

5 Door hatchback

After unlocking, push the button below the handle and open the tailgate.

4 Door sedan

Push the button under the boot lid moulding or press button on the remote control until boot lid is opened.

⚠Warning

Do not drive with the boot lid open or ajar, e.g. when transporting bulky objects, since toxic exhaust gases could enter the vehicle.

Caution

Before opening the boot lid check overhead obstructions, such as a garage door, to avoid damage of the boot lid. Always check the moving area above and behind the boot lid.

Note

The installation of certain heavy accessories onto the boot lid may affect its ability to remain open.

Closing

5 Door hatchback

Use the interior handle.

4 Door sedan

Push the boot lid down until it latches.

Vehicle security

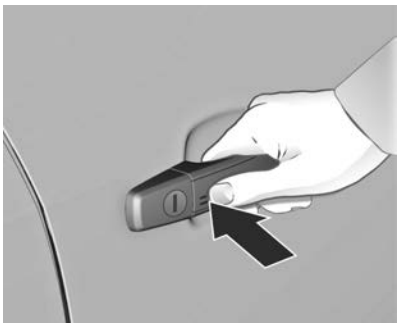
Anti-theft alarm system

Anti-theft alarm system monitors:

- Doors, boot lid, bonnet
- Passenger compartment including adjoining boot
- Vehicle inclination, e.g. if it is raised
- Ignition

Activation

- Self-activated 30 seconds after locking the vehicle (initialisation of the system), or
- Remote control: directly by pressing once more after locking, or
- Electronic key system: directly by touching the sensor field in the door handle once more after locking.



Note
Changes to the vehicle interior such as open windows or the use of seat covers could impair the function of passenger compartment monitoring.

Status LED

Status LED is integrated in the sensor on top of the instrument panel.

Status during the first 30 seconds of anti-theft alarm system activation:

LED illuminates	=	test, arming delay.
LED flashes quickly	=	doors, boot lid or bonnet not completely closed, or system fault.

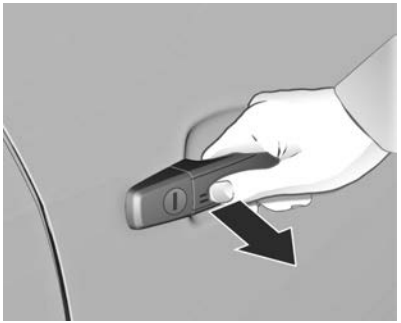
Status after system is armed:

LED flashes slowly	=	system is armed.

Seek the assistance of a workshop in the event of faults.

Deactivation

Unlocking the vehicle by pressing button or pulling the door handle (when the electronic key is in range) deactivates the anti-theft alarm system.



Alarm

When triggered, the alarm sounds via a separate battery-backed power sounder, and the hazard warning lights flash simultaneously. The number and duration of alarm signals are stipulated by legislation.

The alarm can be silenced by pressing any button on the remote control or by switching on the ignition.

The anti-theft alarm system can be deactivated only by pressing the button or by pulling the door handle (only electronic key system) or switching on the ignition.

Immobiliser

The system is integrated into the ignition switch and checks whether the vehicle is allowed to start with the key being used. If the transponder in the key is recognised, the vehicle can be started.

The immobiliser activates itself automatically after the key has been removed from the ignition switch or when the engine is switched off by pressing the Start/Stop button.

If the control indicator flashes or illuminates when the ignition is on, there is a fault in the system; the engine cannot be started. Switch off the ignition and then repeat the start attempt.

If the control indicator continues flashing, attempt to start the engine using the spare key and seek the assistance of your Holden Dealer.

Note

The immobiliser does not lock the doors. You should always lock the vehicle after leaving it.

Control indicator ⇨ 66.

Exterior mirrors

Convex Mirrors

The convex exterior mirror reduces blind spots. The shape of the mirror makes objects appear smaller, which will affect the ability to estimate distances.

Power Mirrors

Select the relevant exterior mirror by turning the control to left **(L)** or right **(R)**. In position **0** no mirror is selected.

Then swivel the control to adjust the mirror.

Folding Mirrors

For pedestrian safety, the exterior mirrors will swing out of their normal mounting position if they are struck with sufficient force. Reposition the mirror by applying slight pressure to the mirror housing.

Heated Mirrors

Operated by pressing the button.

Heating works with the engine running and is switched off automatically after a short time.

Interior mirrors

Manual Rearview Mirror

To reduce glare, pull the lever on the underside of the mirror housing.

Windows

Power windows

⚠Warning

Take care when operating the power windows to avoid the risk of injury, particularly to children.

If there are children on the rear seat, switch on the child safety system for the power windows.

Keep a close watch on the windows when closing them. Ensure that nothing becomes trapped in them as they move.

Power windows can be operated

- with ignition on,
- within 10 minutes after switching ignition off.

After switching off the ignition, window operation is disabled when a front door is opened.

Operate the switch for the respective window by pushing to open or pulling to close.

Operation of driver's window

Pushing or pulling lightly to the first detent: window moves down or up as long as switch is operated.

Pushing or pulling further to the second detent and then releasing: window moves down or up automatically with safety function. To stop movement, operate the switch once more in the same direction.

Operation of passenger's window and rear windows

Pushing or pulling lightly to the first detent: window moves down or up as long as switch is operated.

Pushing further to the second detent and then releasing: window moves down automatically. To stop movement, operate the switch once more in the same direction.

Safety function on driver's window

If the window glass encounters resistance above the middle of the window during automatic closing, it is immediately stopped and opened again.

Safety function all doors

In the event of closing difficulties due to frost or the like, hold the switch pulled. The window moves up without activating the safety function. To stop movement, release and operate the switch once more in the same direction.

Child safety system for rear windows

Press switch to deactivate rear door power windows, the LED lights up. To activate press again.

Overload

If the windows are repeatedly operated within short intervals, the window operation is disabled for some time.

Initialising the power windows

If the windows cannot be closed automatically (e.g. after disconnecting the vehicle battery), a warning message or a warning code is displayed in the Driver Information Centre.

Vehicle messages ⇨ 70.

Activate the window electronics as follows:

1. Close doors.
2. Switch on ignition.
3. Close the window completely and keep the switch pulled for additional 2 seconds.
4. Repeat for each window.

Heated rear window

Operated by pressing the button.

Heating works with the engine running and is switched off automatically after a short time.

Sun visors

The sun visors can be folded down or swivelled to the side to prevent glare.

If the sun visors have integral mirrors, the mirror covers should be closed when driving.

Seats, restraints

Head restraints 32
Front seats 33
Rear seats 36
Seat belts 36
Airbag system 40
Child restraints 43

Head restraints

Position

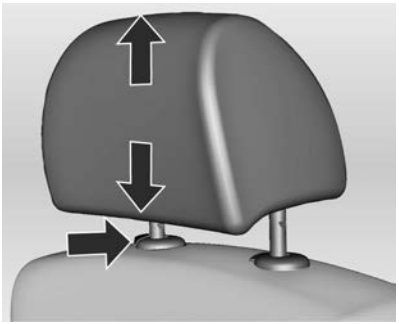
⚠Warning

Only drive with the head restraint set to the proper position.

The upper edge of the head restraint should be at upper head level. If this is not possible for extremely tall people, set to highest position, and set to lowest position for small people.

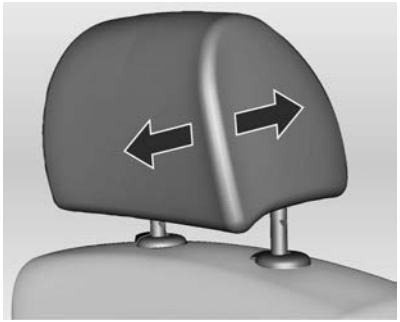
Head restraints on front seats

Height adjustment



Pull the head restraint upwards.

To move down press the catch and push the head restraint downwards.



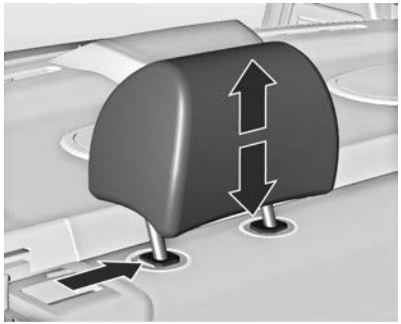
Horizontal adjustment

To adjust horizontally, pull the head restraint forwards and engage in one of three positions.

To return to its rearmost position, pull fully forwards and release.

Head restraints on rear seats

Height adjustment



Pull the head restraint upwards.

To move down press the catch and push the head restraint downwards.

Front seats

Seat position

⚠ Warning
Only drive with the seat correctly adjusted.

- Sit with your buttocks as far back against the backrest as possible. Adjust the distance between the seat and the pedals so that your legs are slightly angled when

applying the pedals. Slide the passenger seat as far back as possible.

- Sit with your shoulders as far back against the backrest as possible. Set the backrest rake so that you can easily reach the steering wheel with your arms slightly bent. Maintain contact between your shoulders and the backrest when turning the steering wheel. Do not angle the backrest too far back. We recommend a maximum rake of approx. 25 °.
- Adjust the steering wheel ⇨ 54.
- Set seat height high enough to have a clear field of vision on all sides and of all display instruments. There should be at least one hand of clearance between your head and the headlining. Your thighs should rest lightly on the seat without pressing into it.
- Adjust the head restraint ⇨ 32.
- Adjust the height of the seat belt ⇨ 38.

Seat adjustment

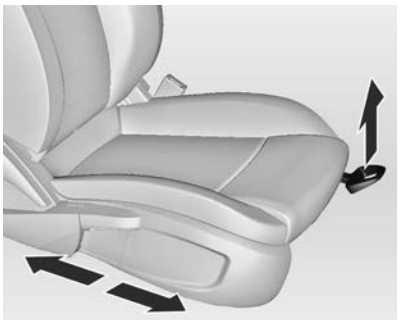
⚠ Danger

Do not sit nearer than 25 cm from the steering wheel, to permit safe airbag deployment.

⚠ Warning

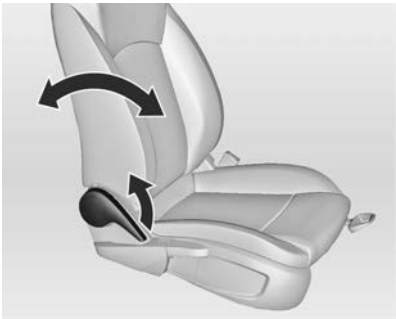
Never adjust seats while driving as they could move uncontrollably.

Seat positioning



Pull handle, slide seat, release handle.

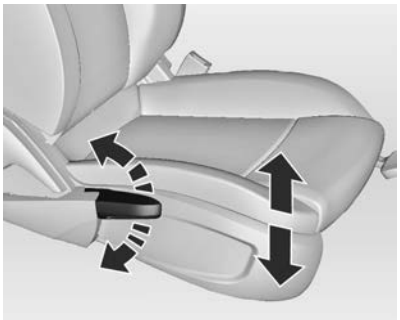
Seat backrests



Pull lever, adjust inclination and release lever. Allow the seat to engage audibly.

Do not lean on seat when adjusting.

Seat height



Lever pumping motion

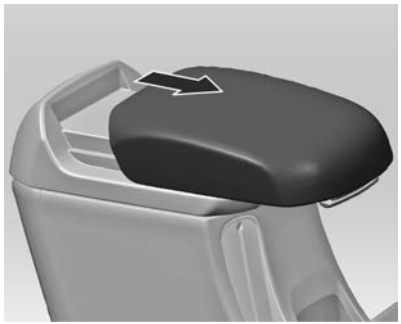
up = higher
down = lower

Armrest

Armrest between front seats

Push button on the front edge and fold armrest upward. The open armrest contains a stowage compartment.

Horizontal adjustment



Push button to slide the armrest.

Heated Front Seats

(If fitted)

Activate front seat heating (while the engine is running) by pressing the button in the control knob for temperature (left seat) or fan speed (right seat) one or more times with the ignition on. The number of LEDs in the button indicates the setting.

Prolonged use of the highest level for people with sensitive skin is not recommended.

Seat heating is operational when the engine is running.

Rear seats

Armrest

Fold armrest down by pulling the strap. The folded armrest contains drink holders.

Seat belts

Seat belt reminder for driver's seat and front passenger seat, seat belt control indicator ⇨ 63.

The belts are locked during heavy acceleration or deceleration of the vehicle for the safety of the occupants.

⚠Danger

Fasten seat belt before each trip.

In the event of an accident, people not wearing seat belts endanger their fellow occupants and themselves.

⚠Warning

Seatbelts are designed to bear upon the bony structure of the body, and should be worn low across the front of the pelvis or the pelvis, chest and shoulders, as applicable; wearing the lap section of the belt across the abdominal area must be avoided.

Seatbelts should be adjusted as firmly as possible, consistent with comfort, to provide the protection for which they have been designed. A slack belt will greatly reduce the protection afforded to the wearer.

Care should be taken to avoid contamination of the webbing with polishes, oils and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water. The belt should be replaced if webbing becomes frayed, contaminated or damaged.

It is essential to replace the entire assembly after it has been worn in a severe impact even if damage to the assembly is not obvious.

Belts should not be worn with straps twisted.

Each belt assembly must only be used by one occupant; it is dangerous to put a belt around a child being carried on the occupant's lap.

No modifications or additions should be made by the user which will either prevent the seatbelt adjusting devices from operating to remove slack, or prevent the seatbelt assembly from being adjusted to remove slack.

Periodically check all parts of the belt system for damage, soiling and proper functionality.

Have damaged components replaced. After an accident, have the belts and triggered belt tensioners replaced by your Holden Dealer.

Note

Make sure that the belts are not damaged by shoes or sharp-edged objects or trapped. Prevent dirt from getting into the belt retractors.

Belt force limiters

In the front seats, stress on the body is reduced by dampened release of the belt during a collision.

Belt tensioners

In the event of a head-on or rear-end collision of a certain severity, the front seat belts are tightened.

⚠Warning

Incorrect handling (e.g. removal or fitting of belts or belt buckles) can trigger the belt tensioners with risk of injury.

Deployment of the belt tensioners is indicated by illumination of control indicator ⇨ 63.

Triggered belt tensioners must be replaced by your Holden Dealer. Belt tensioners can only be triggered once.

Note
Do not affix or install accessories or other objects that may interfere with the operation of the belt tensioners. Do not make any modifications to belt tensioner components as this will invalidate the vehicle type approval.

Three-point seat belt

Fitting

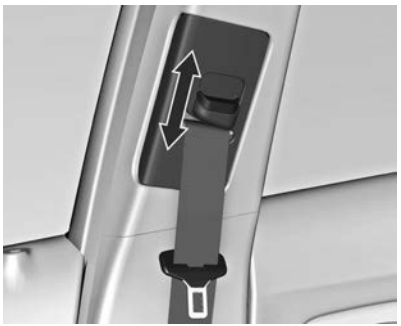
Withdraw belt from reel, guide it untwisted across the body and engage the latch plate in the buckle. Tension the lap belt regularly whilst driving by tugging the shoulder belt.

Loose or bulky clothing prevents the belt from fitting snugly. Do not place objects such as handbags or mobile phones between the belt and your body.

⚠Warning

The belt must not rest against hard or fragile objects in the pockets of your clothing.

Height adjustment

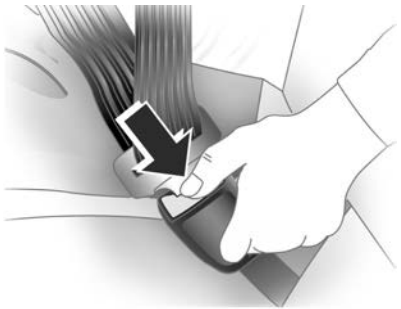


1. Pull belt out slightly.
2. Press button.
3. Adjust height and engage.

Adjust the height so that the belt lies across the shoulder. It must not lie across the throat or upper arm.

Do not adjust while driving.

Removing



To release belt, press red button on belt buckle.

Seat belts on the rear seats

The three point seat belt for the rear centre seat can only be withdrawn from the retractor if the backrest is in the rear position.

Pregnant women

Seat belts work for everyone, including pregnant women. Like all occupants, they are more likely to be seriously injured if they do not wear a seatbelt. A pregnant woman should wear a three point seat belt with the lap portion of the belt worn as low as possible below the rounding of their stomach, throughout the pregnancy.

Airbag system

The airbag system consists of a number of individual systems.

When triggered the airbags inflate within milliseconds. They also deflate so quickly that it is often unnoticeable during the collision.

⚠Warning

If handled improperly the airbag systems can be triggered in an explosive manner.

Note

The airbag systems and belt tensioner control electronics are located in the centre console area. Do not put any magnetic objects in this area.

Do not stick anything on the airbag covers and do not cover them with other materials.

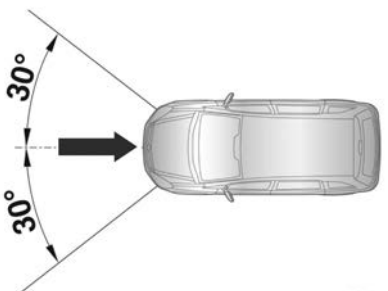
Each airbag is triggered only once. Have deployed airbags replaced by a Holden Dealer.

In the event of airbag deployment have the steering wheel, the instrument panel, all panelling parts, the door seals, the handles and the seats replaced by your Holden Dealer.

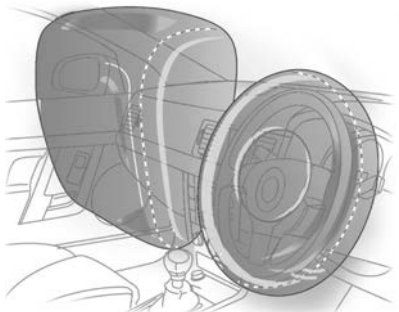
Control indicator for airbag systems ⇨ 63.

Front airbag system

The front airbag system consists of one airbag in the steering wheel and one in the instrument panel on the passenger side. These can be identified by the word **AIRBAG**.



The front airbag system is triggered in the event of an accident of a certain severity in the depicted area. The ignition must be on.



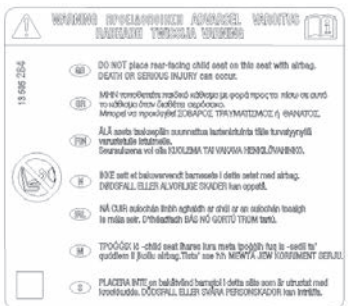
In the event of an accident (e.g. front-end collision) the forward movement of the front seat occupants is retarded, thereby considerably reducing the risk of injury to the upper body and head.

⚠Warning

Optimum protection is only provided when the seat is in the proper position ⇨ 33.

Keep the area in which the airbag inflates clear of obstructions.

Wear the seat belt properly fastened. Only then the airbag is able to protect.



Refer to the airbag warning label on the passenger's sunvisor.

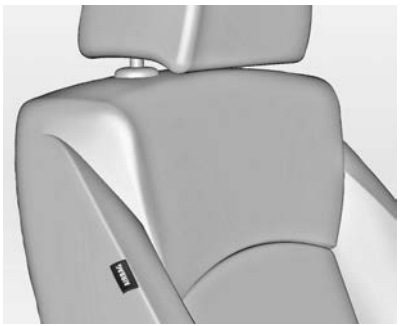
⚠Warning

WARNING – EXTREME HAZARD

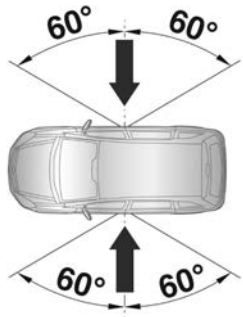
Do not use a rearward facing child restraint on a seat protected by an airbag in front of it.

The child could be seriously injured if the airbag inflates, as the child's head would be very close to the inflating airbag.

Side airbag system



The side airbag system consists of an airbag in each front seat backrest. This can be identified by the word **AIRBAG**.



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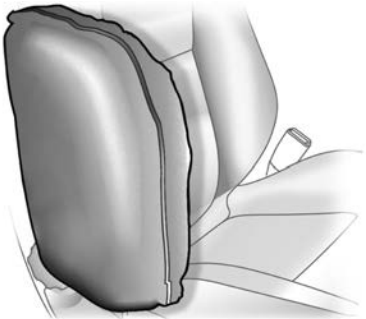
The side airbag system is triggered in the event of an accident of a certain severity in the depicted area. The ignition must be on.



The risk of injury to the upper body and pelvis in the event of a side-on collision is considerably reduced.

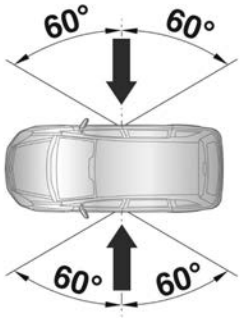
⚠Warning

Keep the area in which the airbag inflates clear of obstructions.

Note
Only use protective seat covers that have been approved for your vehicle. Be careful not to cover the airbags.

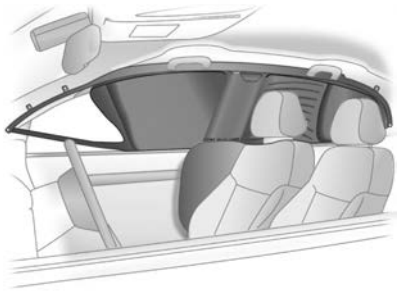
Curtain airbag system

The curtain airbag system consists of an airbag in the roof frame on each side. This can be identified by the word **AIRBAG** on the roof pillars.



30035

The curtain airbag system is triggered in the event of an accident of a certain severity in the depicted area. The ignition must be on.



The risk of injury to the head in the event of a side impact is considerably reduced.

⚠Warning

Keep the area in which the airbag inflates clear of obstructions.

The hooks on the handles in the roof frame are only suitable for hanging up light articles of clothing, without coat hangers. Do not keep any items in these clothes.

Child restraints

Child restraint systems

When a child restraint system is being used, pay attention to the following usage and installation instructions and also those supplied with the child restraint system.

13 695 254
DO NOT place rear-facing child seat on this seat with airbag.
DEATH OR SERIOUS INJURY can occur.
ÄLÄ aseta taaksepäin suunnattua lastenistuinta tälle turvatyynyllä varustetulle istuimelle.
Seurauksena voi olla KUOLEMA TAI VAKAVA HENKILÖVAHINKO.
IKKE sett et bakovervendt barnesete i dette setet med airbag.
DØDSFALL ELLER ALVORLIGE SKADER kan oppstå.
PLACERA INTE en bakåtvänd barnstol i detta säte som är utrustat med krockkudde. DÖDSFALL ELLER SVÅRA PERSONSKADOR kan inträffa.

Refer to the airbag warning label on the passenger's sunvisor.

⚠Warning

WARNING – EXTREME HAZARD

Do not use a rearward facing child restraint on a seat protected by an airbag in front of it.

The child could be seriously injured if the airbag inflates, as the child's head would be very close to the inflating airbag.

⚠Warning

This manual provides you with general information concerning child restraints only. The driver is required by law to ensure that passengers are suitably restrained.

In most States and Territories of Australia and New Zealand, specific laws may exist which require children to be seated in approved child restraints. Holden strongly recommends that you refer to your specific State or Territory regulations to determine which child restraint is suitable for your child.

Children should be restrained at all times when travelling in a vehicle.

Always ensure that the seat belt fits firmly around the child restraint.

If a child cannot see out of the window, do not raise him/her by means of an ordinary cushion. It will not stay in place in a collision and the child can slip out of the straps and become entangled.

⚠Warning

Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts, harnesses or for attaching other items or equipment to the vehicle.

Only child restraints that have clips to attach to the vehicle's anchorage fitting are to be used. Earlier types of child restraints may not attach securely to this type of anchor.

Only Standards Australia approved child restraints and harnesses should be used. You should only purchase a child restraint which carries the appropriate Standards Australia sticker of approval.

Always follow the child restraint manufacturer's fitting instructions when installing a child restraint into the vehicle.

Selecting the right system

The rear seats are the safest location to fasten a child restraint system.

Your child should travel facing backwards in the vehicle, until as old as possible. It is appropriate to change the system when the child's head can no longer be properly supported at eye height. The child's cervical vertebrae are still very weak and in an accident they suffer less stress in the semi-prone rearward position than when sitting upright.

Never carry a child whilst travelling in the vehicle. The child will become too heavy to hold in the event of a collision.

When transporting children, use the child restraint systems suitable for the child's weight.

Ensure that the child restraint system to be installed is compatible with the vehicle type.

Ensure that the mounting location of the child restraint system within the vehicle is correct.

Only allow children to enter and exit the vehicle at the side facing away from the traffic.

When the child restraint system is not in use, secure the seat with a seat belt or remove it from the vehicle.

Note

Do not stick anything on the child restraint systems and do not cover them with any other materials.

A child restraint system which has been subjected to stress in an accident must be replaced.

Please ensure that infants and children are seated in the rear seats using child restraints.

Until the children can use seat belts, please select a child restraint suitable for its age and make sure the child wears it. Please see the instructions on the relevant products for child restraints.

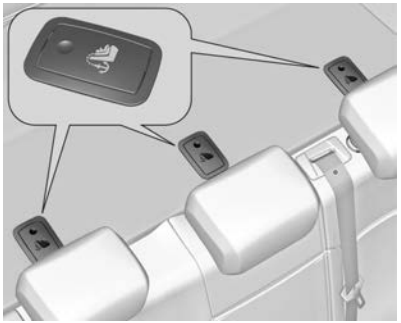
Child restraint installation locations

Permissible options for fitting a child restraint system

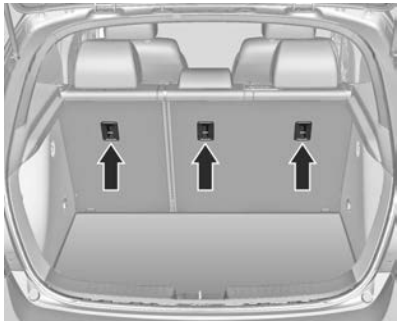
Weight and age class	On front passenger seat	On rear outboard seats	On rear centre seat
Group 0: up to 10 kg or approx. 10 months	X	U	U
Group 0+: up to 13 kg or approx. 2 years	X	U	U
Group I: 9 to 18 kg or approx. 8 months to 4 years	X	U	U
Group II: 15 to 25 kg or approx. 3 to 7 years	X	U	U
Group III: 22 to 36 kg or approx. 6 to 12 years	X	U	U

U = Universal suitability in conjunction with three-point seat belt.
X = No child restraint system permitted in this weight class.

Top-tether child restraint systems



Fasten top-tether child restraint systems to the fastening eyes on the places behind the rear head restraints or on the back of the rear seats.



The strap must run between the two guide rods of the head restraint.

When using top-tether for seat mounting, universally approved child restraint systems for top-tether may be used.

Top-tether mounting loops are indicated by labels on the load compartment cover or on the back of the rear seats.

Storage

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Loading information 52

Storage compartments

Instrument panel storage

Storage on top of the instrument panel

Pull the grip to fold up the cover.

Storage below the light switch

Pull the grip to open the box.

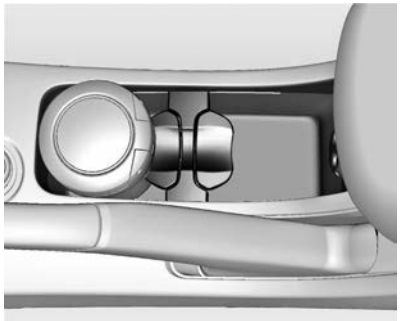
Glovebox

To open pull the grip.

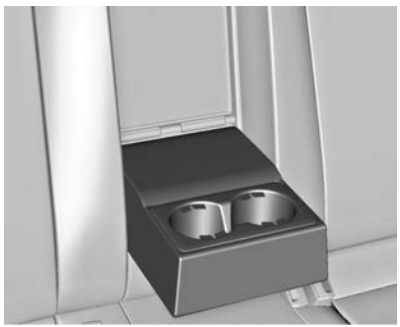
⚠Warning

To reduce the risk of injury in an accident or a sudden stop, always keep the glovebox door closed while driving.

Cupholders



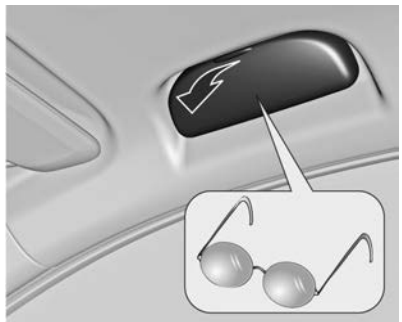
Cupholders are located in the centre console.



Additional cupholders are located in the rear armrest, when it is folded down.

Sunglasses storage

(If fitted)



Fold down to open.

Do not use for storing heavy objects.

Armrest storage

Storage in the front armrest

Push button on the front edge to slide and fold up the armrest.

Load compartment

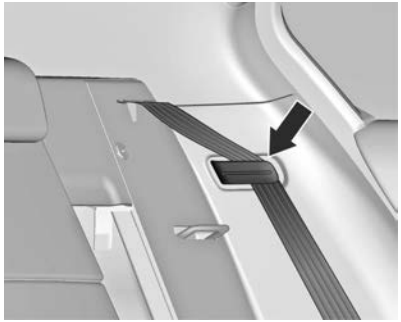
Folding down rear seat backrests

The rear backrest is divided into two parts. Both parts can be folded down.

Push head restraints down by pressing the catch.

Fold up rear armrest.

Pull release lever on one or both sides and fold down the backrests on the seat cushion.



The seat belts must be pulled out and positioned away from the backrest.

Fold up backrests into upright position.

Latch seat backrests into position by pushing at the upper part of the backrest until they engage audibly.

Pull seat backrests forward again to make sure they are correctly engaged.

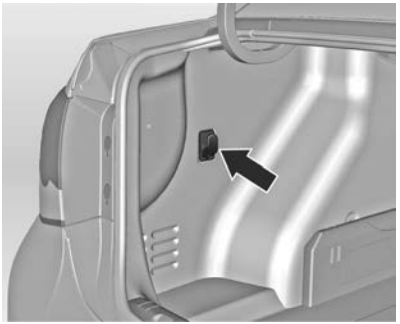
The backrests are only engaged when the red marks on both sides near the release lever are not visible.

Insert all safety belts into the slots, if seat belts are not coiled up automatically.

The centre rear safety belt may lock when you raise the seatback. If this happens, let the belt go back all the way and start again.

Never fold seat backrest when the rear centre seat belt is buckled or extracted.

Bag hanger (if fitted)



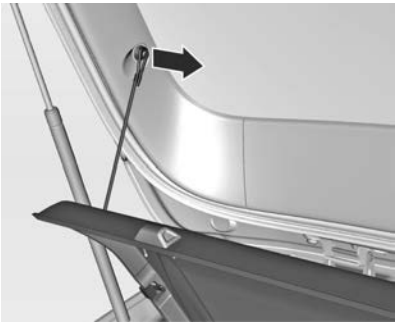
On the left side in the boot is a retainer for hanging light carrier bags.

Load compartment cover

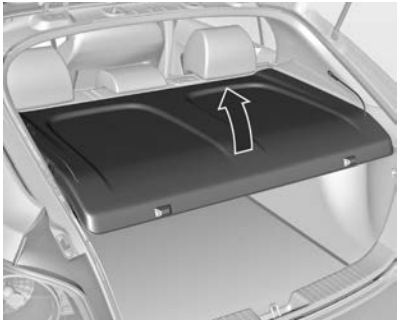
Do not place any objects on the cover.

5 Door hatchback

Removing



Unhook retaining straps from tailgate.



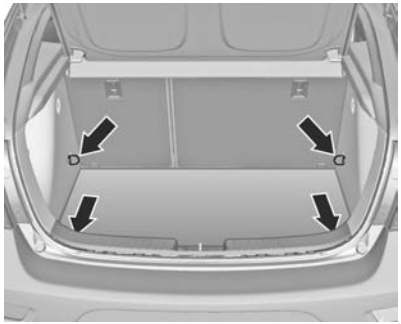
Lift cover at the rear and push it upwards at the front, from underneath.

Remove the cover.

Fitting

Engage cover in side guides and fold downwards. Attach retaining straps to tailgate.

Lashing eyes



The lashing eyes are designed to secure items against slippage, e.g. using lashing straps or luggage net.

Roof rack system

Roof rack

For safety reasons and to avoid damage to the roof, the vehicle approved roof rack system is recommended.

Follow the installation instructions and remove the roof rack when not in use.

⚠Warning

For safety reasons, and to avoid damaging the roof, use only the roof rack approved by Holden for your vehicle. The maximum allowable roof load is 45 kg (including the weight of the roof racks). Roof rack loads alter the handling of a vehicle due to a change in the centre of gravity.

Avoid abrupt swerving or sharp steering when carrying loads on the roof rack.

Loading information

- Heavy objects in the boot should be placed against the seat backrests. Ensure the backrests are securely engaged. If objects can be stacked, the heavier objects should be placed at the bottom.
- Secure objects in load compartment to prevent sliding.
- Secure objects with lashing straps attached to lashing eyes ⇨ 52.

- When transporting objects in the load compartment, the backrests of the rear seats must not be angled forward.
- Do not allow the load to protrude above the upper edge of the backrests.
- Do not place any objects on the boot lid cover or the instrument panel. Do not cover the sensor on top of the instrument panel.
- The load must not obstruct the operation of the pedals, parking brake and shift lever, or hinder the freedom of movement of the driver. Do not place any unsecured objects in the interior.
- Do not drive with an open boot lid.
- Optional equipment and accessories increase the kerb weight.
- Driving with a roof load increases the sensitivity of the vehicle to cross-winds and has a detrimental effect on vehicle handling due to the vehicle's higher centre of gravity. Distribute the load evenly and secure it properly with retaining straps. Adjust the tyre pressure and vehicle speed according to the load conditions. Check and retighten the straps frequently.

Instruments and controls

Controls 54
Warning lights, gauges and indicators 59
Information displays 67
Vehicle messages 70
Trip computer 71
Vehicle personalisation 73

Controls

Steering wheel adjustment

Unlock lever, adjust steering wheel, then engage lever and ensure it is fully locked.

Do not adjust steering wheel unless vehicle is stationary.

Steering wheel controls

The Infotainment system can be operated by the controls on the steering wheel.

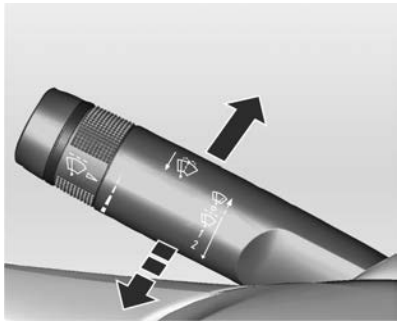
Further information regarding this can be found in the Infotainment section ⇨ 83.

Horn

Press .

Windscreen wiper/washer

Windscreen wiper



2 = fast
1 = slow
= timed interval wiping
O = off

For a single swipe when the windscreen wipers are off, push the lever up.

Do not use if the windscreen is frozen.

Switch off in car washes.

Adjustable wiper interval

Wiper lever in position .

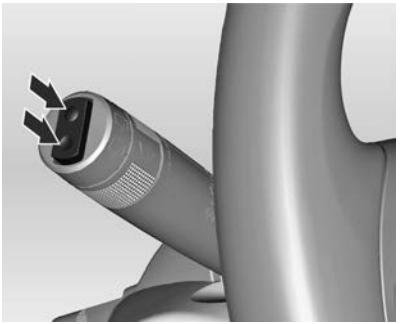
Turn the adjuster wheel to adjust the desired wipe interval:

short interval = turn adjuster wheel downwards
long interval = turn adjuster wheel upwards

Windscreen washer

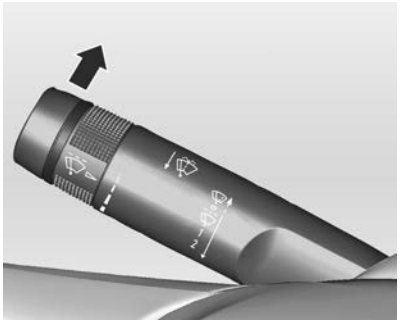
Pull lever. Washer fluid is sprayed onto the windscreen and the wiper swipes for a few strokes.

Rear window wiper/washer



Press the rocker switch to activate the rear window wiper:

upper position	=	intermittent operation
lower position	=	continuous operation
middle position	=	off



Push lever. Washer fluid is sprayed onto the rear window and the wiper wipes a few times.

Do not use if the rear window is frozen.

Switch off in car washes.

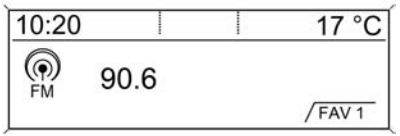
The rear window wiper comes on automatically when the windscreen wiper is switched on and reverse gear is engaged.

Activation or deactivation of this function can be changed in the menu **Settings** in the Info-Display.

Vehicle personalisation ⇨ 73.

The rear window washer system is deactivated when the fluid level is low.

Outside temperature



A drop in temperature is indicated immediately and a rise in temperature after a time delay.

If outside temperature drops to 3 °C, the symbol illuminates in the Info-Display as a warning for icy road conditions. remains illuminated until temperatures reach at least 5 °C.

Additionally, a warning message may be displayed in the Driver Information Centre.

⚠Warning

The road surface may already be icy even though the display indicates a few degrees above 3 °C.

Clock

Date and time are shown in the Info-Display.

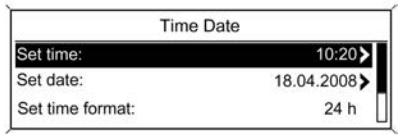
Graphic Information Display (GID)

(If fitted)

Set date and time

Press the **CONFIG** button. The menu **Settings** is displayed.

Select **Time Date**.



Selectable setting options:

- **Set time**: changes the time shown on the display.
- **Set date**: changes the date shown on the display.

- **Set time format**: changes the time display format.
- **Set date format**: changes the date display format.

Make the desired settings.

Colour Information Display (CID)

(If fitted)

Set date and time

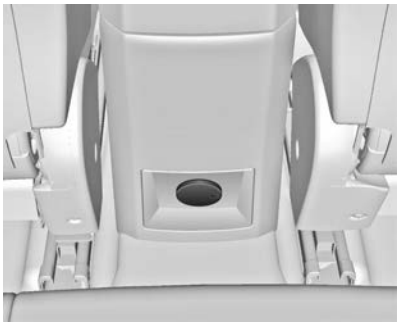
To set the time:

1. Press **CONFIG** then rotate **MENU** to select the Time page.
2. Select between hours and minutes by pressing the **MENU** knob.
3. Use the **MENU** knob to adjust the Hours and Minutes to decrease and increase the time.
   - 12/24 hours format: Select the 12 hours preset 3 button for standard time; select the 24 hours preset 4 button for 24 hour format.
   - Day + or Day -: Press the Day + or Day - preset buttons to increase or decrease the day that is showing on the clock.

Vehicle personalisation ⇨ 73.

Power outlets

(If fitted)



12V power outlets are located in the front and rear floor console.

Do not exceed the maximum power consumption of 120 watts.

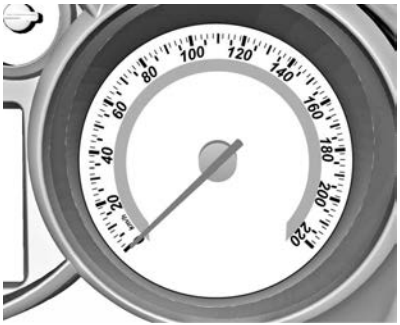
With ignition off the power outlets are deactivated. Additionally the power outlets are deactivated in case of low battery voltage.

Do not connect any current-delivering accessories, e.g. electrical charging devices or batteries.

Do not damage the sockets by using unsuitable plugs.

Warning lights, gauges and indicators

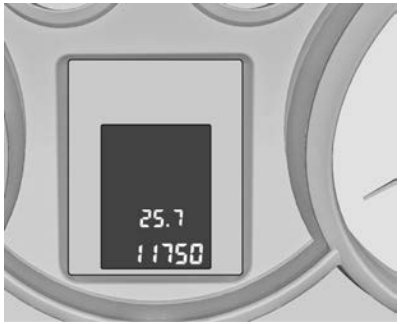
Speedometer



Indicates vehicle speed.

Note
When driving in the speed limited zones, such as child-safety zones, please keep the speed limits.

Odometer



The bottom line displays the recorded distance.

Different displays are used depending on the model.

Trip odometer

The top line displays the recorded distance since the last reset.

When kilometres are selected as the unit in the **Vehicle Information Menu**, the maximum value is **1999.9**. When the recorded distance reaches **2000**, the trip odometer automatically shows **0** without resetting.

When miles are selected as the unit in the **Vehicle Information Menu**, the maximum value is **1241**. When the recorded distance reaches **1242**, the trip odometer automatically shows **0** without resetting.

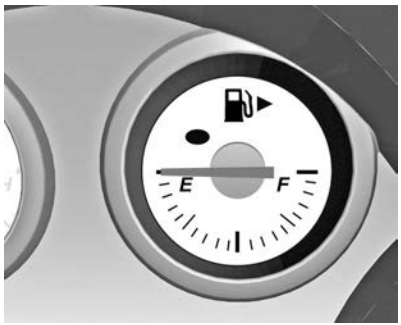
Tachometer

Displays the engine revolutions per minute.

Drive in a low engine speed range for each gear as much as possible.

Caution
If the needle is in the red warning zone, the maximum permitted engine speed is exceeded. Engine is at risk.

Fuel gauge



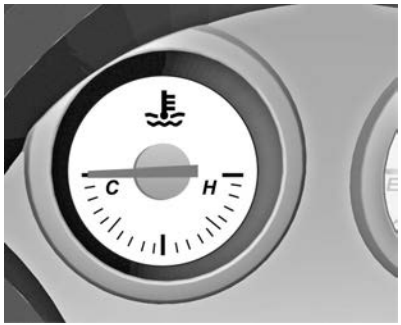
Displays the fuel level in the tank.

Control indicator ⬬ illuminates if the level in the tank is low. Refuel immediately.

Never run the tank dry.

Because of the fuel remaining in the tank, the top-up quantity may be less than the specified tank capacity.

Engine Temperature gauge



Displays the coolant temperature.

left area	=	engine operating temperature not yet reached
central area	=	normal operating temperature
right area	=	temperature too high

Caution
Do not continue driving with the temperature gauge needle in the right area. The engine is too hot. Continued operation of an overheated engine will result in severe engine damage.

Service display

Engine oil life system for diesel engines

When to change engine oil

This vehicle has a computer system that indicates when to change the engine oil and filter. This is based on engine revolutions and engine temperature, and not on kilometres. Based on driving conditions, the kilometres at which an oil change is indicated can vary considerably.

For the oil life system to work properly, the system must be reset every time the oil is changed. When the system has calculated that oil life has been diminished, it indicates that

an oil change is necessary. **CodE 82** or **Change Engine Oil Soon** appears in the Driver Information Centre. Change the oil as soon as possible within the next 1000 km.

It is possible that, if driving under the best conditions, the oil life system might indicate that an oil change is not necessary for up to a year. The engine oil and filter must be changed at least once a year and, at this time, the system must be reset. Your dealer has trained service people who can perform this work and reset the system.

It is also important to check the oil regularly over the course of an oil drain interval and keep it at the proper level. If the system is ever reset accidentally, the oil must be changed at 5000 km since the last oil change.

Display of remaining engine oil life

The remaining engine oil life duration is displayed in the Driver Information Centre by the control indicator, followed by a percent value which shows the remaining engine oil life. For this purpose, the ignition has to be switched on without engine running.

Driver Information Centre ⇨ 67.

Service Information ⇨ 182.

Control indicators

The control indicators described are not present in all vehicles. The description applies to all instrument versions. Depending on the equipment, the position of the control indicators may vary. Different displays are used depending on model. When the ignition is switched on, most control indicators will illuminate briefly as a functionality test.

The control indicator colours mean:

red	=	danger, important reminder
yellow	=	warning, information, fault
green	=	confirmation of activation
blue	=	confirmation of activation
white	=	confirmation of activation

Control indicators in the instrument

Turn signal

⇦⇨ illuminates or flashes green.

Flashes

The control indicator flashes if a turn signal or the hazard warning flashers are activated.

Fast flashing: failure of a turn signal light or associated fuse.

Bulb replacement ⇨ 153. Fuses ⇨ 161.

Turn signals ⇨ 80.

Seat belt reminder

Seat belt reminder on front seats

for driver's seat illuminates or flashes red.

² for front passenger seat illuminates or flashes red, when seat is occupied.

Illuminates

After the ignition is switched on. Illuminates for 100 seconds after starting the engine or reaching a specific distance or speed, or until the seat belt is fastened.

Flashes

Flashes for 100 seconds after starting the engine or reaching a specific distance or speed, or until the seat belt is fastened.

Fastening the seat belt ⇨ 38.

Airbag and belt tensioners

illuminates red.

When the ignition is switched on, the control indicator illuminates for about 4 seconds. If it does not illuminate, does not go out after 4 seconds or illuminates whilst driving, there is a fault in the belt tensioner or in the airbag system. The systems may fail to trigger in the event of an accident.

Deployment of the belt tensioners or airbags is indicated by continuous illumination of .

⚠Warning
Have the cause of the fault remedied immediately by your Holden Dealer.

Airbag system, belt tensioners ⇨ 40, ⇨ 36.

Charging system

illuminates or flashes red.

Illuminates for a few seconds after the ignition is switched on.

Illuminates when the engine is running

Stop, switch off engine. Battery is not charging. Engine cooling may be interrupted. In diesel engines, power to the brake servo unit may be cut. Seek the assistance of your Holden Dealer.

Malfunction Indicator Lamp

illuminates or flashes yellow.

It illuminates when the ignition is switched on and goes out shortly after the engine starts.

If illuminates while driving, there may be a malfunction in the emission monitoring system. Contact a Holden Dealer.

Service vehicle soon

illuminates.

It illuminates in combination with a warning code.

Vehicle messages ⇨ 70.

Brake and clutch system

(BRAKE) illuminates red.

Illuminates when the parking brake is actuated if the brake/clutch fluid level is too low or if there is a brake system fault ⇨ 152.

⚠ Warning

Stop. Do not continue your journey. Contact your Holden Dealer.

Illuminates after the ignition is switched on if the manual parking brake is applied ⇨ 128.

Antilock brake system (ABS)

(ABS) illuminates yellow.

Illuminates for a few seconds after the ignition is switched on. The system is ready for operation when the control indicator goes out.

If the control indicator does not go out after a few seconds, or if it illuminates while driving, there is a fault in the ABS. The brake system remains operational but without ABS regulation.

Antilock brake system ⇨ 128.

Power steering

! illuminates yellow.

Illuminates with power steering reduced

Power steering is reduced due to overheating of the system. Control indicator goes out when the system has cooled down.

Illuminates with power steering disabled

Failure in the power steering system. Contact your Holden Dealer.

Illuminates after interruption of power supply

The steering angle sensor must be calibrated to make the power steering system operational.

- For automatic calibration, drive in straight line at constant slow speed until the control indicator goes out.
- If the control indicator remains illuminated, turn the steering wheel from limit position to limit position for manual calibration.

The control indicator goes out when the system is operational again.

Ultrasonic parking assist

(If fitted)

P illuminates yellow.

Illuminates for a few seconds after the ignition is switched on.

If the control indicator does not go out after a few seconds, or if it illuminates while driving, there is a fault in the system

or

Fault due to sensors that are dirty or covered by ice or snow

or

Interference due to external sources of ultra sound. Once the source of interference is removed, the system will operate normally.

Have the cause of the fault in the system remedied by your Holden Dealer.

Ultrasonic parking sensors ⇨ 132.

Electronic Stability Control

illuminates or flashes yellow.

Illuminates for a few seconds after the ignition is switched on.

Illuminates

A fault in the system is present. Continued driving is possible. Driving stability, however, may deteriorate depending on road surface conditions.

Have the cause of the fault remedied by your Holden Dealer.

Flashes

The system is active. Engine output may be reduced and the vehicle may be braked automatically to a small degree.

Electronic Stability Control off

illuminates yellow.

Illuminates for a few seconds after the ignition is switched on.

Illuminates when the system is deactivated.

Traction Control system off

illuminates yellow.

Illuminates for a few seconds after the ignition is switched on.

Illuminates when the system is deactivated.

Preheating

(If fitted)

illuminates yellow.

Illuminates for a few seconds after the ignition is switched on.

Illuminates when preheating is activated. Only activates when outside temperature is low.

Diesel particle filter

(If fitted)

illuminates or flashes yellow.

Illuminates for a few seconds after the ignition is switched on.

The diesel particle filter requires cleaning.

Continue driving until goes off. If possible, do not allow engine speed to drop below 2000 rpm until goes off.

Illuminates

The diesel particle filter requires cleaning. Start cleaning process as soon as possible.

Flashes

The diesel particle filter is full. Start cleaning process immediately to avoid damage to the engine.

Diesel particle filter ⇨ 122.

Engine oil pressure

illuminates red.

Illuminates for a few seconds after the ignition is switched on.

Illuminates when the engine is running

Caution

Engine lubrication may be interrupted. This may result in damage to the engine and/or locking of the drive wheels.

1. Depress clutch.
2. Select neutral gear, set shift lever to **N**.
3. Move out of the flow of traffic as quickly as possible without impeding other vehicles.
4. Switch off ignition.

⚠Warning

When the engine is off, considerably more force is needed to brake and steer.

Do not remove key until vehicle has come to a standstill, otherwise the steering column lock could engage unexpectedly.

Check oil level before seeking assistance of your Holden Dealer ⇨ 149.

Low fuel

illuminates yellow.

Illuminates when level in fuel tank is too low.

Catalytic converter ⇨ 123.

Bleeding the diesel fuel system ⇨ 153.

Immobiliser

illuminates or continously flashes yellow.

Illuminates for a few seconds after the ignition is switched on.

Fault in the electronic immobiliser system. The engine cannot be started.

Have the cause of the fault remedied by your Holden Dealer.

Apply footbrake

Press Brake to Start Engine is displayed on the DIC.

Displayed when brake or clutch pedal needs to be depressed to start vehicles with electronic key system ⇨ 19.

Exterior light

illuminates green.

Illuminates when the parking lights are on ⇨ 78.

High beam

illuminates blue.

Illuminates when high beam is on and during headlight flash ⇨ 79.

Fog light

(If fitted)

illuminates green.

Illuminates when the front fog lights are on ⇨ 80.

Cruise control

illuminates white or green.

Illuminates white

The system is on.

Illuminates green

A certain speed is stored.

Cruise control ⇨ 131

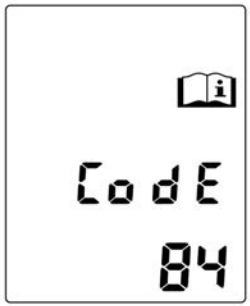
Door Ajar Light

illuminates red or white.

It illuminates when a door or the boot lid is open.

Information displays

Driver Information Centre



The Driver Information Centre (DIC) is located in the instrument cluster between the speedometer and tachometer.

Different displays are used depending on model.

Selecting functions

The menus and functions can be selected by the buttons on the turn signal lever.

Press the **MENU** button to switch between the menus.

The menu is locked when the vehicle is moving.

The following menus can be selected:

- **Unit settings**
- **Trip/Fuel Information**

Turn the adjuster wheel to scroll through a menu option or to set a numeric value.

Press the **SET/CLR** button to select a function or to confirm a message.

Vehicle personalisation ⇨ 73.

Trip computer ⇨ 71.

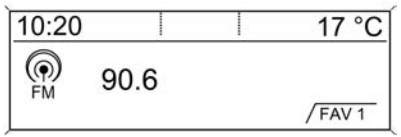
Graphic Information Display (GID) and Colour Information Display (CID)

Depending on the vehicle configuration the vehicle has a Graphic Information Display (GID) or Colour Information Display (CID). The Display is located in the instrument panel above the faceplate of the Infotainment system.

Note
The Colour Information Display (CID) is a touchscreen.

System Settings, Personalisation ⇨ 73.

Graphic Information Display (GID)



Display of time, outside temperature, date or Infotainment system (when it is on) and settings for vehicle personalisation.

Selecting functions

Functions and settings are accessed via the display.

Selections are made via:

- menus
- function buttons and **CONFIG** button of the Infotainment system

Selecting with the Infotainment system

Select menu items via the menus and using the Infotainment system buttons. The **CONFIG** button is used to select an item and the **MENU** button to confirm.

To exit a menu, press **BACK**.

Colour Information Display (CID)

The Colour Information Display (CID) indicates:

- time ⇨ 57
- outside temperature ⇨ 57
- date ⇨ 57
- Infotainment system, see description for Infotainment system
- navigation, see description for Infotainment system
- system settings
- settings for vehicle personalisation ⇨ 73

The type of information and how it is displayed depend on the equipment of the vehicle and the settings made.

Selecting menus and settings

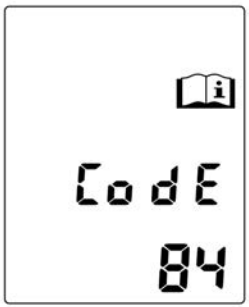
Rotate the **MENU** button to scroll through the available setup options, press the **MENU** button to select. Alternatively select by touching the touchscreen.

Vehicle messages

Messages are given via the Driver Information Centre (DIC), the Info-Display or as warning and signal buzzers. Confirm warning messages with the **SET/CLR** button on the turn signal lever.

If necessary, consult your Holden Dealer for assistance.

Vehicle messages on the display



Depending on the model, the vehicle messages are displayed as code numbers.

No.	Vehicle message
25	Left front turn indicator failure
26	Left rear turn indicator failure
27	Right front turn indicator failure
28	Right rear turn indicator failure
35	Replace battery in remote control
54	Water in diesel fuel filter
55	Diesel particle filter is full ⇨ 122
75	Service air conditioner
79	Top up engine oil ⇨ 149
82	Change engine oil soon ⇨ 182
84	Engine power is reduced
95	Service airbag

Depending on the model, the vehicle messages may be displayed as text. Follow the instructions given in the messages.

The system displays messages regarding the following topics:

- Fluid levels
- Anti-theft alarm system
- Brakes
- Drive systems
- Ride control systems
- Cruise control
- Object detection systems
- Lighting, bulb replacement

- Wiper/washer system
- Doors, windows
- Remote control
- Seat belts
- Airbag systems
- Engine and transmission
- Tyre pressure
- Diesel particle filter
- Battery

Warning chimes

When starting the engine or whilst driving

- If seat belt is not fastened.
- If a door or the boot lid is not fully closed when starting off.
- If a certain speed is exceeded with parking brake applied.
- If a warning code appears in the Driver Information Centre.
- If the parking assist detects an object (if fitted).

When the vehicle is parked and/or the driver's door is opened

- When the key is in the ignition switch.
- With parking lights on.

Trip computer

The menus and functions can be selected with the turn signal lever.

Turn the adjuster wheel to select one of the submenus:

- Trip meter
- Average consumption
- Range
- Average speed
- Instantaneous consumption

Trip meter

Different displays are used depending on model.

To reset, press the **SET/CLR** button for a few seconds.

Average consumption

Display of average consumption. The measurement can be reset at any time.

To reset, press the **SET/CLR** button for a few seconds.

Range

Range is calculated from current fuel tank content and current consumption. The display shows average values.

After refuelling, the range is updated automatically after a brief delay.

When the fuel level in the tank is low the indicator ⬬ in the fuel gauge illuminates.

Average speed

Display of average speed. The measurement can be reset at any time.

To reset, press the **SET/CLR** button for a few seconds.

Instantaneous consumption

Display of the instantaneous consumption is displayed while the vehicle is moving.

Vehicle personalisation

The vehicle's parameters can be personalised by changing the settings in the Driver Information Centre and in the Info-Display.

Depending on vehicle equipment, some of the functions described below might not be available.

Note
The Info-Display and the Driver Information Centre are both locked when the vehicle is moving.

Settings in the Driver Information Centre

The **Unit** settings can be selected by the buttons on the turn signal lever.

Press the **MENU** button to select the menu **Unit**.

The **Unit** settings menu is displayed.

Different displays are used depending on model.

Displayed units can be changed.

Press the **SET/CLR** button to select the unit setting mode.

- **Imperial**
- **US**
- **Metric**

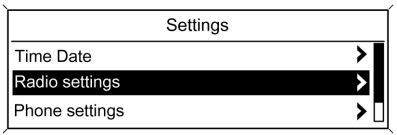
Turn the adjuster wheel to select 3 **(Metric)**. Press the **SET/CLR** button to confirm.

Settings in the Graphic Information Display (GID)

(If fitted)

Switch the Infotainment system on and press the **CONFIG** button. The menu **Settings** is displayed.

To return to the **Settings** menu, press **CONFIG**. To exit a menu, press **BACK**.



The following settings can be selected by rotating and pushing the **MENU** button:

- **Languages**
- **Time Date**
- **Radio settings**
- **Phone settings**
- **Vehicle settings**

In the corresponding submenus, the following settings can be changed:

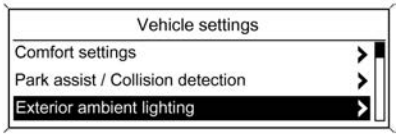
Languages
Selection of the desired language.

Time Date
See Clock ⇨ 57.

Radio settings
See Infotainment section for further information.

Phone settings
See Infotainment section for further information.

Vehicle settings



- **Comfort settings**

  Chime volume: Change the volume of warning chimes.

  Rear auto wipe in reverse gear (if fitted): Activate or deactivate automatically switching on of the rear window wiper when reverse gear is engaged.

- **Park assist / Collision detection** (If fitted)

  Park assist: Activate or deactivate the ultrasonic sensors.

- **Exterior ambient lighting**

  Exterior lighting by unlocking: Activate or deactivate the entry lighting.

  Duration upon exit of vehicle: Activate or deactivate and change the duration of exit lighting.

- **Power door locks**

  Stop door lock if door open: Activate or deactivate the function.

  Auto door lock: Activate or deactivate the automatic door locking function, including boot lid and fuel filler flap. Will activate and lock doors, boot lid and fuel filler flap when vehicle takes off.

  Auto door unlock: Change the configuration to unlock only the driver's door or all doors whilst unlocking. Will activate and unlock doors including boot lid and fuel filler flap when vehicle is placed in park (Auto only). Will activate and unlock doors including boot lid and fuel filler flap when ignition key is removed from the ignition barrel (Manual only).

- **Remote locking, unlocking, starting**

  Remote unlock feedback: Activate or deactivate the hazard warning lights, lights (when dark), whilst unlocking.

  Remote lock feedback: Activate or deactivate the hazard warning light, lights and horn feedback whilst locking.

  Remote door unlock: Select driver's door or all doors at unlock.

- **Restore factory settings**

  Restore factory settings: Reset all settings to the default settings.

Note

For further information on changing settings in the Graphic Information Display (GID), please refer to the Infotainment section ⇨ 90.

Settings in the Colour Information Display (CID)

(If fitted)

The following settings can be selected by pressing **CONFIG**, then scrolling through the setup options by rotating the **MENU** button and pressing **MENU** to select. Alternatively select by touching the touchscreen.

- **Radio**
- **Nav**
- **Display**
- **Vehicle**
- **Time**

In the corresponding submenus the following settings can be changed by rotating and pressing the **MENU** knob:

Radio
See Infotainment system handbook.

Nav
See Infotainment system handbook.

Vehicle

- **Comfort & Convenience**

  Chime volume: Change the volume of warning chimes.

  Rear auto wipe in reverse gear (if fitted): Activate or deactivate automatically switching on of the rear window wiper when reverse gear is engaged.

- **Park assist / Collision detection**

  Park assist: Activate or deactivate the ultrasonic parking assist.

- **Languages**

  English is displayed.

- **Exterior ambient lighting**

  Duration upon exit of vehicle: Activate or deactivate and change the duration of exit lighting.

  Exterior lighting by unlocking: Activate or deactivate the welcome lighting.

- **Power door locks**

  Auto door unlock: Activate or deactivate the automatic door unlocking function after switching off ignition.

  Auto door lock: Activate or deactivate the automatic door locking function, to occur after driving off.

  Prevent doorlock while door open: Activate or deactivate the automatic door locking function while a door is open.

- **Remote Lock / Unlock / Start**

  Remote lock feedback: Activate or deactivate the hazard warning light, lights and horn feedback whilst locking.

  Exterior lighting by unlocking: Activate or deactivate the entry lighting.

  Door unlock: Change the configuration to unlock only the driver's door or the whole vehicle whilst unlocking.

  Passive door unlock: Activate or deactivate the passive door unlock function.

  Remote left in vehicle reminder: Activate or deactivate the reminder for left remote control in vehicle.

- **Restore factory settings**

  Restore factory settings: Reset all settings to the default settings.

Display
Selectable display settings:

- **Display options**

  Day mode: Optimisation for daylight conditions.

  Night mode: Optimisation for darkness.

  Automatic mode: The display changes mode depending on outside surrounding light or, on

some models, daylights / nightlights are always on

- **Display off**: Switches off the display.

Time

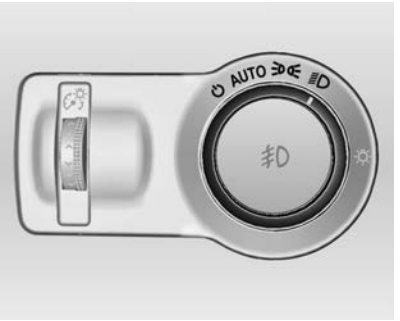
See Clock ⇨ 57.

Lighting

Exterior lighting 78
Interior lighting 81
Lighting features 82

Exterior lighting

Light switch



Turn light switch:

AUTO = Automatic light control: Headlights are switched on and off automatically depending on external lighting conditions.

⏻ = Activation or deactivation of the automatic light control. Switch turns back to **AUTO**.

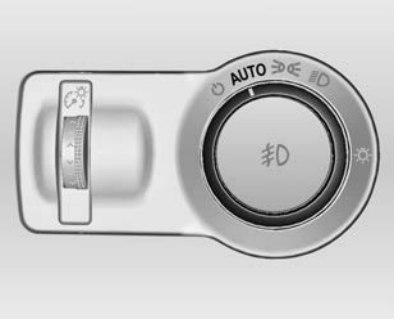
≡D = Parking lights

≡D = Headlights and parking lights

When switching on ignition, automatic light control is always active.

When lights are on, ≡D lights up. Control indicator ≡D ⇨ 67.

Automatic light control



Automatic light control function

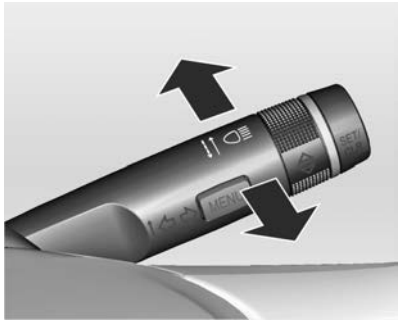
When the automatic light control function is switched on and the engine is running, the system switches the headlights and taillights on and off according to ambient light conditions.

Automatic headlight activation

During poor lighting conditions the headlights and taillights are switched on.

Furthermore the headlights are switched on if the windscreen wipers have been activated for several wipes.

High beam



To switch from low to high beam, push lever.

To switch to low beam, push lever again or pull.

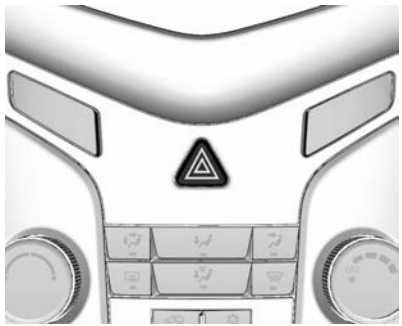
⚠Warning

Always switch the high beam headlamps to low beam when you approach oncoming vehicles or when other vehicles ahead. High beam headlamps can temporarily blind other drivers, which could result in a collision.

Headlight flash

To activate the headlight flash, pull lever.

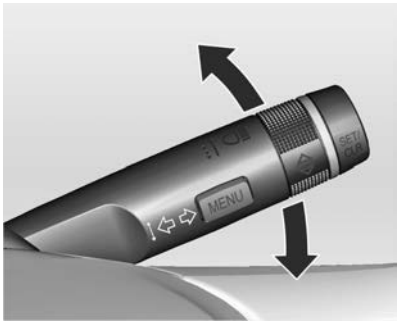
Hazard warning flashers



Operated with the ⚠ button.

The hazard warning flashers activate automatically if the airbags deploy.

Turn and lane-change signals



lever up = left indicator
lever down = right indicator

If the lever is moved past the resistance point, the indicator is switched on constantly. When the steering wheel moves back, the indicator is automatically deactivated.

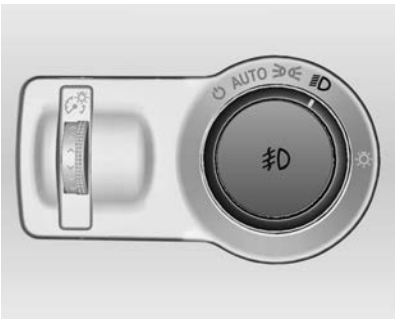
For three flashes, e.g. when changing lanes, press the lever until resistance is felt and then release.

Move the lever to the resistance point and hold for longer indication.

Switch the indicator off manually by moving the lever to its original position.

Front fog lights

(If fitted)



Operated with the ≠D button.

Reversing lights

The reversing lights come on when the ignition is on and reverse gear is selected.

Misted light covers

The inside of the light housing may mist up briefly in poor, wet and cold weather conditions, in heavy rain or after washing. The mist disappears quickly by itself; to help switch on the headlights.

Interior lighting

Instrument panel illumination control

Brightness of the following lights can be adjusted when the exterior lights are on:

- Instrument panel illumination
- Steering wheel controls
- Info-Display
- Climate control operation elements
- Illuminated switches

Turn knob and hold until the desired brightness is obtained.

Interior lights

Courtesy light

During entry and exit of the vehicle, the courtesy lights automatically switch on and then off after a delay. It switches on for a short time even if the key is withdrawn from the ignition lock.

Operate rocker switch:

= automatic switching on and off
press = always on
press = always off

Reading lights

Operated with and buttons.

Lighting features

Entry lighting

Welcome lighting

Headlights, tail lights and interior lights illuminate for a short time when unlocking the vehicle with the remote control. This function facilitates retrieving the vehicle when it is dark.

The lighting switches off immediately when the ignition is turned to the accessory position.

Activation or deactivation of this function can be changed in the menu **Settings** in the Info-Display. Vehicle personalisation ⇨ 73.

Entrance lighting

The following lights will additionally illuminate when driver`s door is opened:

- All switches
- Driver Information Centre
- Some interior lights

Exit lighting

Headlights and tail lights illuminate the way for an adjustable time after leaving the vehicle.

Switching on

1. Switch off ignition.
2. Remove ignition key.
3. Open driver's door.
4. Pull turn signal lever.
5. Close driver's door.

If the driver's door is not closed the lights switch off after approximately 1 minute.

Activation, deactivation and duration of lighting of this function can be changed in the menu **Settings** in the Info-Display. Vehicle personalisation ⇨ 73.

Battery discharge protection

Switching off electric lights

To prevent discharge of the battery when the ignition is switched off, some interior lights are switched off automatically after some time.

Infotainment system

Introduction 83
Radio 93
CD Player 96
AUX input 99
USB port 100
Speech recognition 101
Phone 106

Introduction

General information

The Infotainment system provides you with state-of-the-art in-car infotainment.

For the AM and FM wavebands, the radio is equipped with twelve automatically assignable channel presets. Furthermore, 36 channels can be allocated manually (waveband-independent).

The integrated audio player will entertain you with audio CDs and MP3/WMA CDs.

Furthermore, you can connect external data storage devices, e. g. iPod®, Zune®, MP3 player or USB stick, or a portable CD player to the Infotainment system as further audio sources.

The digital sound processor provides you with several preset equaliser modes for sound optimisation.

Optionally, the Infotainment system can be operated using controls on the steering wheel.

The Infotainment system can also be equipped with a phone system.

The well-thought-out design of the control elements, the clear displays and the multifunctional **MENU** knob enable you to control the system easily and intuitively.

iPod® is a registered trademark of Apple Inc.

Zune® is a registered trademark of Microsoft Corporation.

Bluetooth® is a registered trademark of Bluetooth SIG, Inc.

Important information on operation and traffic safety

⚠Warning

The Infotainment system must be used in a manner that ensures safe vehicle operation at all times. If in doubt, stop your vehicle and operate the Infotainment system while the vehicle is stationary.

Radio reception

Radio reception may be disrupted by static, noise, distortion or loss of reception due to

- changes in distance from the transmitter,
- multi-path reception due to reflection,
- shadowing.

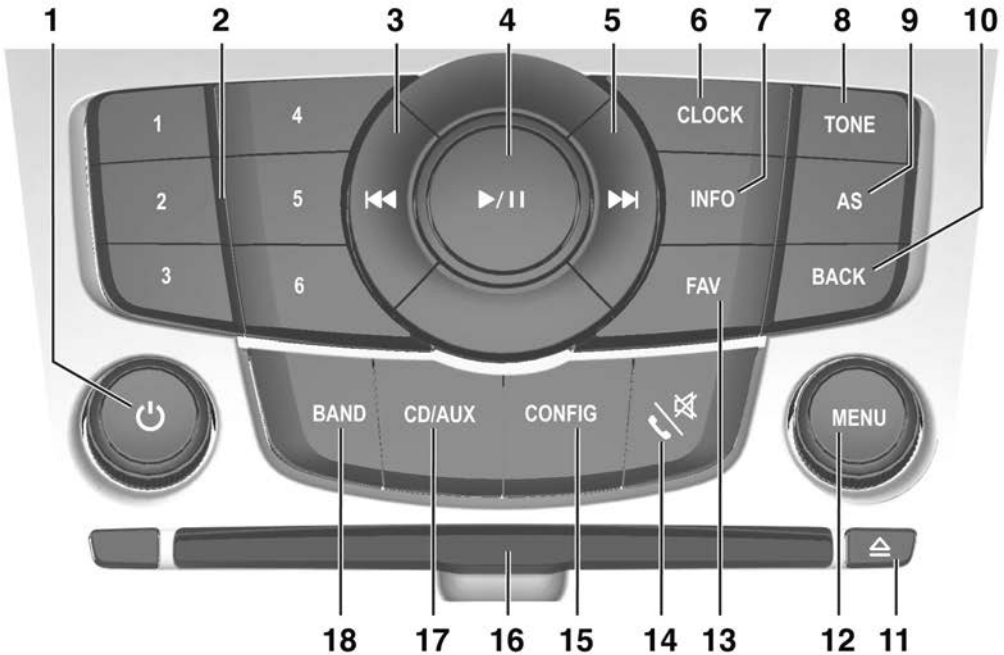
Theft-deterrent feature

The Infotainment system is equipped with an electronic security system for the purpose of deterring thefts.

The Infotainment system therefore functions only in your vehicle and is worthless for a thief.

Control elements overview

Instrument panel



1 ⏻ knob 87
Press: switch on/off Infotainment system 87
Turn: adjust volume 87

2 Station buttons 1...6 93
Long press: save station 93
Short press: select station 93

3 Radio: search backward 93
CD/MP3/WMA: skip track backward 97

4 CD/MP3/WMA: start/ pause replay 99

5 Radio: search forward 93
CD/MP3/WMA: skip track forward 97

6 CLOCK 57
If Infotainment system switched off: display time and date 57
If Infotainment system switched on: change setting for time and date 57

7 INFO 85
Additional, situation-dependent information 85

8 TONE 90
Tone settings 90

9 AS 93
Automatic memory levels 93
Short press: select autostore list 93
Long press: save stations automatically 93

10 BACK 88
Menu: one level back 88

11 CD ejection 97

12 MENU knob 88
Central control for selection and navigation in menus 88

13 FAV 94
Favourite lists (preset radio stations) 94

14 Phone / Mute 106
Open telephone main menu 110
Activate/deactivate mute 87

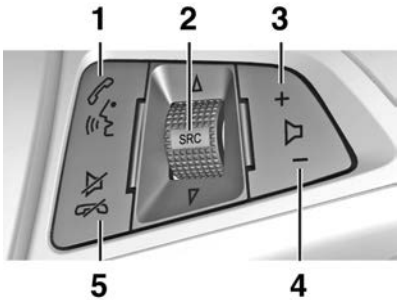
15 CONFIG 92
System settings 92

16 CD slot 97

17 CD/AUX 99
Start CD/MP3/WMA replay or change audio source 99

18 BAND 93
Activate radio or change waveband 93

Steering wheel audio controls



1 Short press: take phone call 106
or dial number in call list 110
or activate speech recognition (if available) 101
Long press: show call list 110
or deactivate speech recognition (if available) 101

2 SRC (Source) 87
Press: select audio source 87
If radio active: turn upwards/downwards to select next/previous preset radio station 93
If CD player active: turn upwards/downwards to select next/previous CD/ MP3/WMA track 97
If Phone system active: turn upwards/downwards to select next/previous entry in call list 110
If Phone system active and calls waiting: turn upwards/downwards to switch between calls 110

3 Increase volume 87

4 Reduce volume 87

5 Short press: end/decline call 110
or close call list 110
or activate/deactivate mute ... 87
or deactivate speech recognition (if available) 101

Usage

Control elements

The Infotainment system is operated via function buttons, multifunctional knobs and menus that are shown on the display.

Inputs are made optionally via:

- the central control unit in the instrument panel ⇨ 85
- controls on the steering wheel.
- the speech recognition system (if available) ⇨ 101

Switching the Infotainment system on or off

Press the ⏻ knob briefly. After switching on, the last selected Infotainment source will be active.

Automatic switch-off

If the Infotainment system has been switched on using the ⏻ knob when the ignition was switched off, it will switch off again automatically 10 minutes after the last user input.

Setting the volume

Turn the ⏻ knob. The current setting is shown on the display.

When the Infotainment system is switched on, the last selected volume is set, if that volume is lower than the maximum start up volume.

The maximum start up volume can be set separately ⇨ 92.

Note
The maximum startup volume only occurs after an ignition cycle.

Speed compensated volume
When speed compensated volume is activated, ⇨ 92 the volume is adapted automatically to make up for the road and wind noise as you drive.

Mute
Press the ✆\ button (if Phone system available: press for a few seconds) to mute the audio sources.

To cancel mute again: turn the ⏻ knob or press the ✆\ button again (if Phone system available: press for a few seconds).

Volume limitation at high temperatures
At very high temperatures inside the vehicle, the Infotainment system limits the maximum adjustable volume. If necessary, the volume is decreased automatically.

Modes of operation

Radio
Press the **BAND** button to open the radio main menu or to change between the different wavebands.

Press the **MENU** knob to open a submenu with options for station selection.

Detailed description of the radio functions ⇨ 93.

Audio players
Press the **CD/AUX** button to open the CD, USB, iPod® or AUX menus (if available) or to swap between these menus.

Press the **MENU** knob to open a submenu with options for track selection.

Detailed description of:
- CD player functions ⇨ 96
- AUX input functions ⇨ 99
- USB port functions ⇨ 100

Phone
(if Phone system available)

Press the ✆\ button to open the telephone menu.

Press the **MENU** knob to open a submenu with options for the input or selection of numbers.

Detailed description of the phone system's functions ⇨ 106.

Basic operation

MENU knob

The **MENU** knob is the central control element for the menus.

Turn
- to mark a menu option
- to set a numeric value

Press

- to select or activate the marked option
- to confirm a set value
- to switch a system function on/off

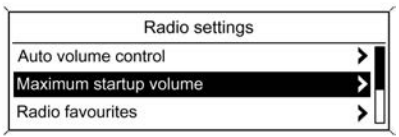
BACK button

Press the button briefly to:

- exit a menu
- return from a submenu to the next higher menu level

Examples of menu operation

Selecting an option



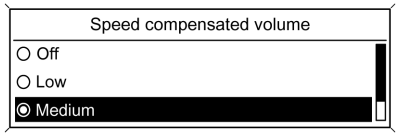
Turn the **MENU** knob to move the cursor (= coloured background) to the desired option.

Press the **MENU** knob to select the marked option.

Submenus

An arrow on the right-hand edge of the menu indicates that after selection of the option, a submenu with further options will be opened.

Activating a setting



Turn the **MENU** knob to mark the desired setting.

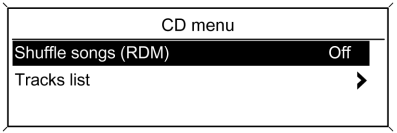
Press the **MENU** knob to activate the setting.

Setting a value

Turn the **MENU** knob to change the current value of the setting.

Press the **MENU** knob to confirm the set value.

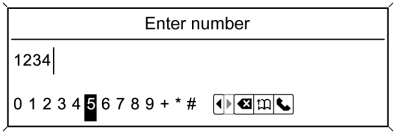
Switching a function on or off



Turn the **MENU** knob to mark the function to be switched on or off.

Press the **MENU** knob to switch between the settings **On** and **Off**.

Entering a character sequence



For the input of character sequences, e.g. telephone numbers:

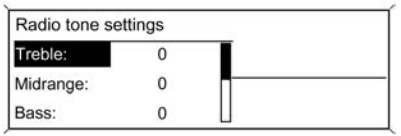
Turn the **MENU** knob to select the desired character.

Press the **MENU** knob to confirm the selected character.

Using the **BACK** button, the last character in the character sequence can be deleted.

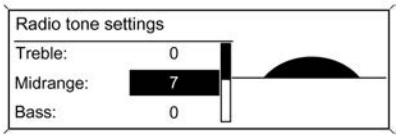
Tone settings

In the tone settings menu, the tone characteristics can be set differently for each radio waveband and each audio player source.



Press the **TONE** button to open the tone menu.

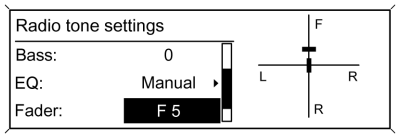
Setting bass, middle and treble



Select **Bass:**, **Midrange:** or **Treble:**.

Set the desired value for the selected option.

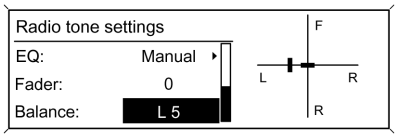
Setting the volume distribution between front - rear



Select **Fader:**.

Set the desired value.

Setting the volume distribution between right - left



Select **Balance:**.

Set the desired value.

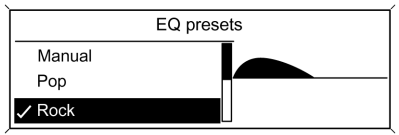
Setting an individual setting to "0"

Select the desired option and press and hold the **MENU** knob for a few seconds.

Setting all settings to "0" or "Off"

Press and hold the **TONE** button for a few seconds.

Optimizing the tone for the style of music



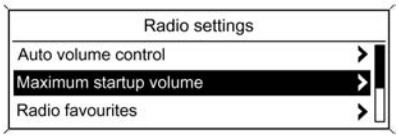
Select **EQ:** (Equaliser).

The displayed options offer optimised bass, middle and treble presettings for the relevant style of music.

Select the desired option.

Volume settings

Maximum startup volume

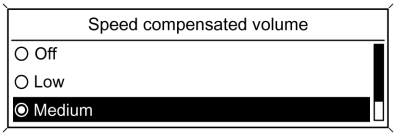


Press the **CONFIG** button to open the system settings menu.

Select **Radio settings** and then **Maximum startup volume**.

Set the desired value.

Speed compensated volume



Press the **CONFIG** button to open the system settings menu.

Select **Radio settings** and then **Auto volume control**.

Speed compensated volume can be deactivated or the degree of volume adaptation can be selected in the menu displayed.

Select the desired option.

Radio

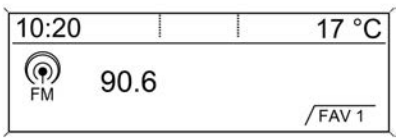
Usage

Control buttons

The most important buttons for control of the radio are as follows:

- **BAND**: Activate radio
- ⏮ ⏭: Station search
- **AS**: Autostore lists
- **FAV**: Favourite lists
- **1...6**: Preset buttons

Activating the radio



Press the **BAND** button to open the radio main menu.

The station last played will be received.

Selecting the waveband

Press the **BAND** button once or several times to select the desired waveband.

The station last played in that waveband will be received.

Station search

Automatic station search

Briefly press button ⏮ or ⏭ to play the next station in the station memory.

Manual station search

Press button ⏮ or ⏭ for a few seconds to start a search for the next receivable station in the current waveband.

When the required frequency has been reached the station is played automatically.

Note

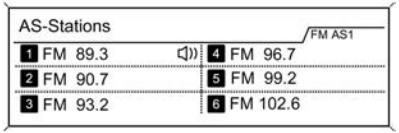
Manual station search: If the radio does not find a station, it switches automatically to a more sensitive search level. If it still does not find a station, the frequency that was last active is set again.

Manual station tuning

Turn the **MENU** knob and set the optimal reception frequency on the pop-up frequency display.

Autostore lists

The stations that can be received best in a waveband can be searched for and stored automatically via the autostore function.



Note
The currently received station is marked by ◀)).

Each waveband has 2 autostore lists (**AS 1**, **AS 2**). 6 stations can be stored in each autostore list.

Automatic station storing

Keep the **AS** button pressed until an autostore message is displayed. The 12 strongest stations in the current waveband will be stored in the 2 autostore lists.

To abort the autostore procedure, press the **MENU** knob.

Storing stations manually

Stations can also be stored manually in the autostore lists.

Set the station to be stored.

Briefly press the **AS** button to open an autostore list or to switch to another autostore list.

To store the station in a list position: press the corresponding station button 1...6 until a confirmation message is displayed.

Note
Manually stored stations are overwritten in an automatic station storing process.

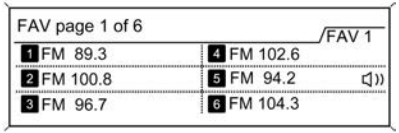
Retrieving a station

Briefly press the **AS** button to open an autostore list or to switch to another autostore list.

Briefly press one of the station buttons 1...6 to open the station at the corresponding list position.

Favourite lists

Stations of all wavebands can be stored manually in the favourite lists.



6 stations can be stored in each favourite list. The number of available favourite lists can be set (see below).

Note
The currently received station is marked by ◀)).

Storing a station

Set the station to be stored.

Briefly press the **FAV** button to open a favourite list or to switch to another favourite list.

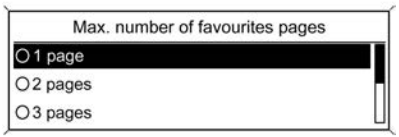
To store the station in a list position: press the corresponding station button 1...6 until a confirmation message is displayed.

Retrieving a station

Briefly press the **FAV** button to open a favourite list or to switch to another favourite list.

Briefly press one of the station buttons 1...6 to open the station at the corresponding list position.

Defining the number of available favourite lists



Press the **CONFIG** button.

Select **Radio settings** and then **Radio favourites**.

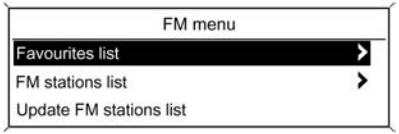
Select the desired number of available favourite lists.

Waveband menus

Alternative facilities for station selection are available via waveband specific menus.

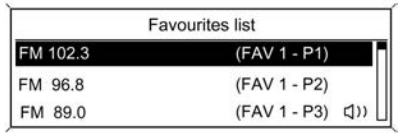
With the radio main menu active press the **MENU** knob to open the relevant waveband menu.

Note
The following FM-specific displays are shown as examples.



Favourites list

Select **Favourites list**. All stations saved in the favourites lists are displayed.



Select the required station.

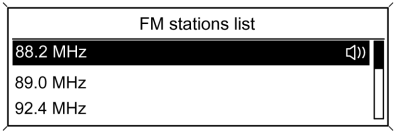
Note
The currently received station is marked by .

Stationslists

Select **AM stations list** or **FM stations list**.

All receivable AM/FM stations in the current reception area are displayed.

Note
If no station list has been created beforehand, the Infotainment system performs an automatic station search.



Select the required station.

Note
The currently received station is marked by 🔊.

Updating stations lists

If the stations stored in the stations list can no longer be received, select **Update AM stations list** or **Update FM stations list**.

A station search is started. Once the search is completed the station last received will be played.

To abort the station search, press the **MENU** knob.

CD Player

General information

The Infotainment system's CD player can play audio CDs and MP3/WMA CDs.

Important information about audio CDs and MP3/WMA CDs

Caution

Under no circumstances place DVDs, single-CDs with a diameter of 8 cm or shaped CDs in the audio player.

You must not put any stickers on CDs. These discs can get jammed in the CD drive and ruin the drive. An expensive replacement of the device will then be necessary.

- Audio CDs with copy protection, which are not in compliance with the audio CD standard, may not play correctly or not at all.
- Self-recorded CD-Rs and CD-RWs are more vulnerable to mishandling than prerecorded CDs. Correct handling, especially in the case of self-recorded CD-Rs and CD-RWs, must be ensured. See below.
- Self-recorded CD-Rs and CD-RWs may not play correctly or not at all. In such cases it is not the equipment that is at fault.
- On mixed mode CDs (audio tracks and compressed files, e. g. MP3, are stored), the audio tracks part and the compressed files part can be played separately.
- Avoid leaving fingerprints when you change CDs.
- Put CDs back in their sleeves immediately after removing them from the CD player in order to protect them from damage and dirt.
- Dirt and liquids on CDs can smear the lens of the CD player inside the device and cause faults.
- Protect CDs from heat and direct sunlight.

- The following restrictions apply for the data stored on an MP3/WMA CD:

  Number of tracks: max. 999.

  Number of folders: max. 255.

  Folder structure depth: max. 64 levels (recommended: max. 8 levels).

  Number of playlists: max. 15.

  Number of songs per playlist: max. 255.

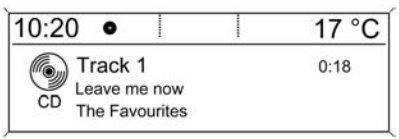
  Applicable playlist extensions: .m3u, .pls, .asx, .wpl.
- This chapter deals only with playing MP3 files since the operation for MP3 and WMA files is identical. When a CD with WMA files is loaded MP3 related menus are displayed.

Usage

The most important buttons for control of the CD player are as follows:

- **CD/AUX**: Select CD player
- ⏮ ⏭: Select a track, fast forward/ rewind
- ▶/⏸: Pause/restart replay
- ⏏: Eject CD

Starting CD replay



Press the **CD/AUX** button once or several times to open the CD or MP3 menu.

If there is a CD in the CD player, CD replay is started.

Depending on the data stored on the audio CD or MP3 CD, differing information about the CD and the current music track will be shown on the display.

Pause replay

Press the ▶/⏸ button.

To restart replay, press the ▶/⏸ button again.

Inserting a CD

Insert a CD with the printed side facing up into the CD slot until it is drawn in.

Skipping to the next track or previous track

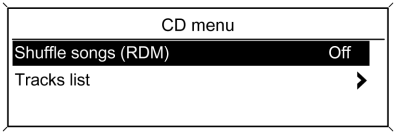
Briefly press button ⏮ or ⏭.

Fast forward or rewind

Press and hold button ⏮ or ⏭ to fast forward or rewind the current track.

Selecting tracks using the audio CD or MP3 menu

During audio CD replay

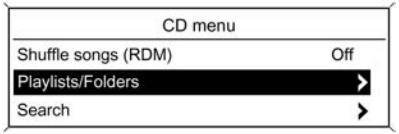


Press the **MENU** knob to open the audio CD related menu.

To play all tracks in random order: set **Shuffle songs (RDM)** to **On**.

To select a track on the audio CD: select **Tracks list** and then select the desired track.

During MP3 replay



Press the **MENU** knob to open the MP3 related menu.

To play all tracks in random order: set **Shuffle songs (RDM)** to **On**.

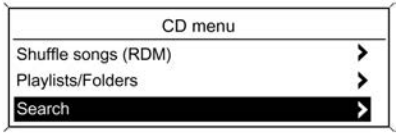
To select a track from a folder or playlist (if available): select **Playlists/ Folders**.

Select a folder or playlist and then select the desired track.

Note
If a CD contains both audio and MP3 data, the audio data can be selected from **Playlists/Folders**.

Additional options for track search and selection

Various options, which depend on the data saved, are available for selection and the playing of MP3 CD tracks.



Press the **MENU** knob and then select **Search** to display the options available.

The search process on the MP3 CD may take several minutes. During this time, an alternate audio source will be played.

Removing a CD

Press the ⏏ button.

The CD is pushed out of the CD slot.

If the CD is not removed after ejection, it will be drawn back in again automatically after a few seconds.

AUX input

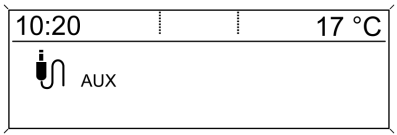
General information

Under the cover on the centre console there is an AUX socket for the connection of external audio sources.

Note
The socket must always be kept clean and dry.

It is possible, for example, to connect a portable CD player with a 3.5 mm jack plug to the AUX input.

Usage



Press the **CD/AUX** button once or several times to activate the AUX mode.

An audio source that is connected to the AUX input can be operated only via the control elements of the audio source.

USB port

General information

(USB port only available for devices with PDIM)

Under the cover on the centre console there is a USB socket for the connection of external audio sources.

Devices connected to the USB port are operated via the controls and menus of the Infotainment system.

Note

The socket must always be kept clean and dry.

Important information

The following devices can be connected to the USB port:

- iPod®
- Zune®
- PlaysForSure device (PFD)
- USB drive

Note

Not all iPod®, Zune®, PFD or USB drive models are supported by the Infotainment system.

Caution
In rare cases, a USB drive may not be recognised by the system or may cause a malfunction.

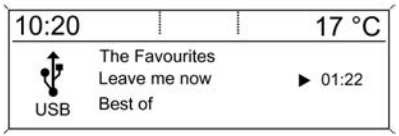
To ensure compatibility with the infotainment system the file system for USB sticks should be FAT32.

The file formats supported are MP3 and WMA.

The total number of files and folders that can be searched is limited to a pre-defined value.

- Maximum number of catalogued files: 10,000.

Played saved audio files



Press the **CD/AUX** button once or several times to activate the USB mode.

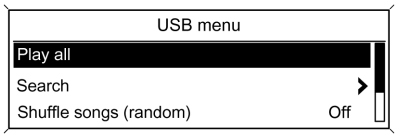
Replay of the audio data stored on the USB device is started.

The operation of data sources connected via USB is mainly the same as for an audio MP3 CD ⇨ 97.

Below only the aspects of operation that are different/additional are described.

Operation and the screen displays are described for USB drives only. Operation of other devices like iPod® or Zune® is mainly the same.

Selecting tracks using the USB menu



Press the **MENU** knob to open the USB related menu.

To play all tracks in succession: select **Play all**.

To display a menu with various additional options for track search and selection: select **Search**.

The search process on the USB device may take several minutes. During this time an alternate audio source will be played.

To play all tracks in random order: set **Shuffle songs (random)** to **On**.

To repeat the currently played track: set **Repeat** to **On**.

Speech recognition

General information

The speech recognition (if fitted) of the Infotainment system enables you to operate various functions of the phone system via voice input. It recognises commands and numeric sequences independently of the relevant speaker. The commands and numeric sequences can be spoken without a voice pause between the individual words.

You can save telephone numbers assigning a name of your choice (voice tag). Using these names, you can later set up a telephone connection.

In the event of incorrect operation or commands, the speech recognition gives you acoustic feedback and requests you to re-enter the desired command. Apart from this, the speech recognition acknowledges important commands and will enquire if necessary.

To ensure that conversations inside the vehicle do not lead to unintentional triggering of system functions, the speech recognition does not start until it has been activated.

Phone control

Activating speech recognition

(if fitted)

To activate the speech recognition of the Phone system, press the ✍ button on the steering wheel. For the duration of the dialogue, any active audio source is muted and any traffic news fade-in is cancelled.

Adjusting the volume for voice output

Turn the volume knob on the Infotainment system, or press the + or – button on the steering wheel.

Cancelling a dialogue

There are various ways to deactivate the speech recognition and cancel the dialogue:

- Press the ✍ button on the steering wheel.
- Say "**Cancel**".
- Do not enter (say) any commands for some time.
- Automatically deactivated/ cancelled after the third unrecognised command.

Operation

With the aid of the speech recognition, the mobile phone can be operated very conveniently via voice input. It is sufficient to activate the speech recognition and to enter (say) the desired command. After input of the command, the Infotainment system guides you through the dialogue with appropriate questions and feedback to achieve the desired action.

Main commands

After activation of the speech recognition a short tone signals that the speech recognition is expecting input.

Main commands available:

- "**Dial**"
- "**Call**"
- "**Redial**"
- "**Save**"
- "**Delete**"
- "**Directory**"
- "**Pair**"
- "**Select device**"
- "**Voice feedback**"

Commands that are frequently available

- "**Help**": the dialogue is terminated and all commands available within the actual function are enumerated.
- "**Cancel**": the speech recognition is deactivated.

- "**Yes**": a suitable action is triggered depending on the context.
- "**No**": a suitable action is triggered depending on the context.

Entering a telephone number

After the command "**Dial**" the speech recognition requests input of a number.

The telephone number must be spoken in your normal voice without any artificial pauses between the individual numbers.

Recognition works best if a pause of at least half a second is made after every three to five digits. The Infotainment system then repeats the numbers recognised.

You can then enter further numbers or the following commands:

- "**Dial**": the inputs are accepted.
- "**Delete**": the number last entered or the block of numbers last entered is deleted.
- "**Plus**": a preceding "+" is entered for a call abroad.
- "**Verify**": the inputs are repeated by the voice output.
- "**Star**": An asterisk "*" is entered.
- "**Hash**": A hash "#" is entered.
- "**Help**"
- "**Cancel**"

The maximum length of the telephone number entered is 25 digits.

To make a call abroad, you can say the word "Plus" (+) at the beginning of your number. The plus allows you to call from any country without knowing the prefix for calls made abroad in that country. Then say the required country code.

Example of a dialogue

User: "**Dial**"

Voice output: "**Please say the number to dial**"

User: "**Plus Four Nine**"

Voice output: "**Plus Four Nine**"

User: "**Seven Three One**"

Voice output: "**Seven Three One**"

User: "**One One Nine Nine**"

Voice output: "**One One Nine Nine**"

User: "**Dial**"

Voice output: "**The number is being dialled**"

Entering a name

Using the "**Call**" command, a telephone number is entered that has been stored in the telephone book under a name (voice tag).

Commands available:

- "**Yes**"
- "**No**"
- "**Help**"
- "**Cancel**"

Example of a dialogue

User: "**Call**"

Voice output: "**Please say the nametag to call**"

User: <Name>

Voice output: "**Do you want to call <Michael>?**"

User: "**Yes**"

Voice output: "**Calling**"

Starting a second call
A second call can be started during an active telephone call. To do so, press the ✆ button.

Commands available:

- "**Send**": activate manual DTMF (touch-tone dialling), e.g. for voice mail or telephone banking.
- "**Send nametag**": activate DTMF (touch-tone dialling) by entering a name (voice tag).
- "**Dial**"
- "**Call**"
- "**Redialling**"
- "**Help**"
- "**Cancel**"

Example of a dialogue
User: "**Send**"

Voice output: "**Please say the number to send.**"

(for number input, see the dialogue example for **Entering a telephone number**)

User: "**Send**"

Redial
The number last dialled is redialled with the command "**Redial**".

Saving
A telephone number is stored in the telephone book under a name (voice tag) with the voice command "**Save**".

The name entered must be repeated once. The pitch and pronunciation must be as identical as possible for both name inputs or the speech recognition will reject the inputs.

A maximum of 50 voice tags can be stored in the telephone book.

Voice tags are speaker-dependent, i.e. only the person who recorded a voice tag can open it.

To avoid the start of the recording of a saved name from being cut off, a short pause should be left after an input request.

To be able to use the voice tag independently of the location, i.e. including other countries, all telephone numbers should be entered with a "plus" character and a country code.

Commands available:

- "**Save**": the inputs are accepted.
- "**Verify**": the last input is repeated.
- "**Help**"
- "**Cancel**"

Example of a dialogue
User: "**Save**"

Voice output: "**Please say the number to save**"

(for number input, see the dialogue example for **Entering a telephone number**)

User: "**Save**"

Voice output: "**Please say the nametag to save**"

User: <Name>

Voice output: "**Please repeat the nametag to confirm**"

User: <Name>

Voice output: "**Saving the nametag**"

Deleting
A previously saved voice tag is deleted with the command "**Delete**".

Commands available:

- "**Yes**"
- "**No**"
- "**Help**"
- "**Cancel**"

Listening to stored names

The voice output of all stored names (voice tags) is started with the command "**Directory**".

Commands available during voice output of the voice tags:

- "**Call**": the telephone number of the voice tag last read aloud is selected.
- "**Delete**": the entry of the voice tag last read aloud is deleted.

Saving a mobile phone to, or deleting it from, the device list

With the command "**Pair**" a mobile phone can be saved to or deleted from the device list of the Phone system ⇨ 107.

Commands available:

- "**Add**"
- "**Delete**"
- "**Help**"
- "**Cancel**"

Example of a dialogue

User: "**Pair**"

Voice output: "**Do you want to add or delete a device?**"

User: "**Add**"

Voice output: "**Using the pair function in the external device, enter <1234> to pair.**"

Voice output: "**Do you want to pair the device?**"

User: "**Yes**"

Voice output: "**The device is connected as the number <device_number>**"

Selecting a mobile phone from the device list

Using the "**Select device**" command, a mobile phone can be selected in the device list for setting up a Bluetooth® connection.

Example of a dialogue

User: "**Select device**"

Voice output: "**Please say a device number to select**"

User: **<device_number>**

Voice output: "**Do you want to select the device number <device_number>?**"

User: "**Yes**"

Voice output: "**Do you want to pair the device?**"

User: "**Yes**"

Voice output: "**One moment. The system is searching for the selected device**"

Voice output: "**Device number <dev_num> is selected**"

Voice feedback

Each voice input is answered or commented on by the Infotainment system by way of a voice output that is adapted to the situation.

To switch the voice output on or off, enter "**Voice feedback**".

Phone

General information

The Phone system (if fitted) provides you with the possibility of having mobile phone conversations via a vehicle microphone and the vehicle loudspeakers as well as operating the most important mobile phone functions via the Infotainment system in the vehicle. To be able to use the Phone system, the mobile phone has to be connected with it via Bluetooth®.

The Phone system can be operated optionally via the speech recognition system.

Not all Phone system functions are supported by every mobile phone. The possible phone functions depend on the relevant mobile phone and network provider. You will find further information on this in the operating instructions for your mobile phone or you can enquire about them with your network provider.

Important information for operation and traffic safety

⚠Warning

Mobile phones have effects on your environment. For this reason, safety regulations and directions have been prepared. You should be familiar with the related directions before you use the telephone function.

⚠Warning

Use of the hands-free facility while driving can be dangerous because your concentration is reduced when telephoning. Park your vehicle before you use the hands-free facility. Follow the stipulations of the country in which you find yourself at present.

Do not forget to follow the special regulations that apply in specific areas and always switch off the mobile phone if the use of mobile phones is prohibited, if interference is caused by the mobile phone or if dangerous situations can occur.

Bluetooth®

The Phone system supports Bluetooth® Handsfree Profile V. 1.5 and is specified in accordance with the Bluetooth® Special Interest Group (SIG).

You will find further information about the specification on the Internet at http://www.bluetooth.com.

Operating the speech recognition

Do not use the speech recognition in emergencies, because in stress situations your voice can change so much that it can no longer be recognised sufficiently to set up the desired connection quickly enough.

Control elements

The most important telephone specific control elements are as follows:

\ button: opens the telephone main menu.

Controls on steering wheel:

, : take call, activate speech recognition.

, : end/reject call, deactivate speech recognition.

The Phone system can be operated optionally via speech recognition ⇨ 101.

Connection

The Phone system switches itself on and off via the ignition. When the ignition is turned off, you can turn the Phone system on and off via the Infotainment system.

A connection can be set up between the mobile phone and the Phone system via Bluetooth®. For this purpose your mobile phone must support Bluetooth®.

To be able to set up a Bluetooth® connection, the Phone system must be switched on and Bluetooth® must be activated.

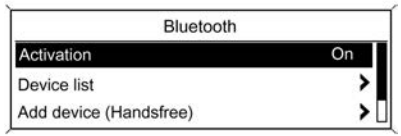
For information on the Bluetooth® function of your mobile phone, please refer to the operating instructions for the mobile phone.

Bluetooth® connection

Bluetooth® is a radio standard for the wireless connection of, for example, a telephone with other devices. Information such as a telephone book, call lists, the network operator's name and field strength can be transferred. The functionality can be restricted depending on the telephone type.

To be able to set up a Bluetooth® connection with the Phone system, the Bluetooth® function of the mobile phone has to be activated and the mobile phone has to be set to "visible"/"discoverable". For further information, please refer to the operating instructions for the mobile phone.

Bluetooth® menu

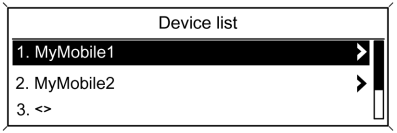


Press the **CONFIG** button.

Select **Phone settings** and then **Bluetooth**.

Activating Bluetooth®
If the Bluetooth® function of the Phone system is deactivated: set **Activation** to **On** and confirm the subsequent message.

Device list
When a mobile phone is connected to the Phone system via Bluetooth® for the first time, the mobile phone is stored in the device list.



A maximum of 5 mobile phones can be stored in the device list.

Connecting a mobile phone for the first time

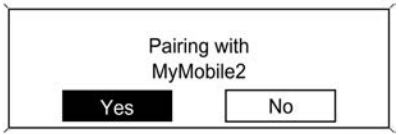
When the mobile phone is added as a handsfree device, the user can make or receive calls and use other functions via the Phone system. The range of functions available depends on the mobile phone. While it is connected with the Phone system, the mobile phone can be operated as usual. Note that the mobile phone battery may discharge at a higher speed than usual due to the Bluetooth® connection active along with normal operation of the mobile phone.

Select **Add device (Handsfree)**. The Bluetooth® code to be entered into the mobile phone is displayed.

Note
Only 5 devices may be paired at one time to the system. If an additional device is to be paired, an existing device must first be deleted.

The Phone system can now be detected by other Bluetooth® devices.

As soon as the mobile phone has detected the Phone system, the Bluetooth® code can be entered into the mobile phone.



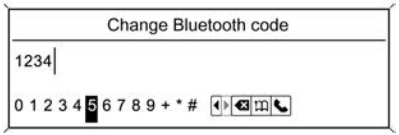
As soon as the Phone system has detected the mobile phone, the connection setup can be confirmed.

The mobile phone is adopted in the device list and can be operated via the Phone system.

Changing the Bluetooth® code

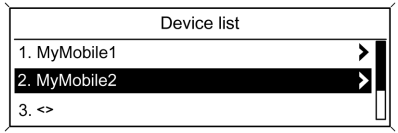
The first time a Bluetooth® connection to the Phone system is set up, a default code is displayed. This default code can be changed at any

time. For security reasons, a four-digit and randomly selected code must be used for pairing devices.



Select **Change Bluetooth code**. On the menu displayed, edit the actual Bluetooth® code and accept the modified code using **OK**.

Connecting a mobile phone saved in the device list



Select the desired mobile phone and then select the option **Select** in the menu displayed.

As soon as the Phone system has detected the mobile phone, the connection setup can be confirmed.

The mobile phone can be operated via the Phone system.

Note
If the device fails to connect, check to ensure the device lists the vehicle phone system. If it does not, delete the device from the device list and reconnect as a new device.

Removing mobile phone from device list
Select the desired mobile phone from the device list. In the menu displayed, select **Delete** and confirm the subsequent message.

Adjusting the ring tone
To change the ring tone characteristic:

Press **CONFIG** button.

Select **Phone settings** and then **Ring tone**.

Select the desired option.

To change the ring tone volume:

While the phone is ringing, turn the ⏻ knob of the Infotainment system or press the buttons **+ / -** on the steering wheel.

Resetting the mobile phone to factory settings
Select **Phone settings** and then **Restore factory settings**.

Operation

Introduction

As soon as a connection via Bluetooth® has been set up between your mobile phone and the Infotainment system, you can also operate many functions of your mobile phone via the Infotainment system.

Via the Infotainment system, you can set up a connection to the telephone numbers stored in your mobile phone, change the telephone numbers, etc.

Note
Mobile phone operation continues to be possible in the handsfree mode, e. g. taking a call or adjusting the volume.

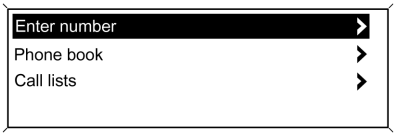
After setup of a connection between the mobile phone and the Infotainment system, the mobile phone data is transmitted to the Infotainment system. This can take some time depending on the phone model. During this period, operation of the mobile phone is possible via the Infotainment system only to a limited extent.

Not every telephone supports all functions of the Phone system. Therefore deviations from the range of functions described with these specific telephones are possible. For further information, please refer to the instructions for the telephone specific adapter.

Setting the volume for hands-free facility

Turn the ⏻ knob of the Infotainment system or press the buttons **+ / -** on the steering wheel.

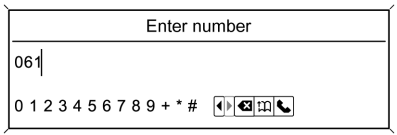
Dialling a telephone number



With the telephone main menu active, press the **MENU** knob to open the phone operation menu.

Several options for dialling telephone numbers and for using the phone book and call lists.

Entering a number manually



Select **Enter number** and then enter the desired number sequence.

Select ✆ to start the dialling process.

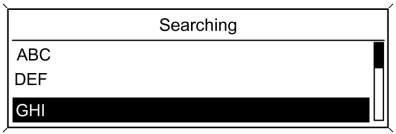
You can switch to the telephone book menu by selecting 🕮.

Telephone book

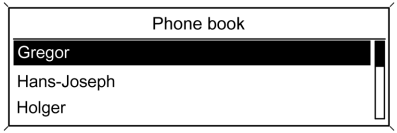
After setting up the connection, the telephone book is compared with the telephone book in the temporary memory, provided that the same SIM card or same telephone is concerned. Recently added entries are not displayed during this period.

If the SIM card or telephone are different, the telephone book is reloaded. This process can take a few minutes depending on the phone model.

Selecting a telephone number from the telephone book



Select **Phone book**. In the displayed menu, select the desired first letter range to start a preselection of the telephone book entries that you want to have displayed.



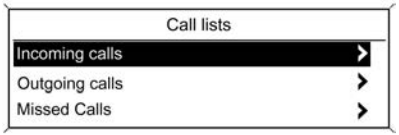
Note

Telephone book entries are carried over as they are transferred from the mobile phone. The presentation and order of the telephone book entries may be different on the Infotainment system's display and the mobile phone's display.

After having performed the preselection: select the desired entry in the telephone book to display the numbers saved under this entry.

Select the desired number to start the dialling process.

Call lists



Via the menu **Call lists** the user can view incoming, outgoing and missed calls and dial the relevant numbers. To start a dialling process: select the desired call list, an entry in the call list and finally the desired telephone number.

Incoming call

When there is an incoming call, a menu is displayed to accept or decline the telephone call.

Select required option.

Functions during a telephone call

If you currently have a telephone call, press the **MENU** knob to open a submenu.

Various options are available depending on the situation and range of functions of the mobile phone:

- **Hang up**: disconnect the telephone connection.
- **Call number**: enter a telephone number to make a second telephone call or perform DTMF (touch-tone dialling), e.g. for voice mail or telephone banking.
- **Detach call**: detach the connection to a conference participant in a telephone conference.
- **Merge calls**: merge two calls when there are several active calls.
- **Switch calls**: switch between calls, if there are several calls.
- **Mute call**: mute a call.

Mobile phones and CB radio equipment

Use mobile phones and CB equipment that utilise an antenna fitted to the outside of the vehicle whenever possible.

If using mobile phones or CBs with an integrated antenna inside the vehicle, avoid using near the dashboard area, as some functions may be affected.

Climate control

Climate control systems 113
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Climate control systems

Air conditioning system

Controls for:

- Temperature
- Air distribution
- Fan speed
- Demisting and defrosting
- Air recirculation
- Cooling
- Heated rear window

Temperature

Adjust the temperature by turning the knob.

red = warm
blue = cold

Heating will not be fully effective until the engine has reached its operating temperature.

Air distribution

Select air outlet by pushing buttons.

= to head area and footwell
= to footwell
= to head area via adjustable air vents
= to windscreen and footwell

Fan speed

Adjust the air flow by switching the fan to the desired speed.

Air conditioning

Operated with the button and is functional only when the engine and fan are running.

The air condition system cools and dehumidifies (dries) the interior of the vehicle, when outside temperature is a little above 0 °C. Condensation may therefore form and drip from under the vehicle.

If no cooling or drying is required, switch the air conditioning system off to save fuel.

Note

When switching on/off the air conditioning system using the air conditioning button, the Info-Display will show **AC on** or **AC off**.

Air recirculation system

The air recirculation mode is operated with the button.

⚠Warning

Driving with recirculation mode for prolonged period of time can make you sleepy. Periodically turn to the outside air mode for fresh air.

The exchange of fresh air is reduced in air recirculation mode. In operation without cooling the air humidity increases, so the windows may mist up. The quality of the passenger compartment air deteriorates, which may cause the vehicle occupants to feel drowsy.

Demisting and defrosting the windows

Adjust the air flow by switching the fan to the desired speed.

- Push button : the air distribution is directed automatically to the windscreen, and fan speed 3 is selected.
- Set temperature control to warmest level.
- Switch on heated rear window .
- Open side air vents as required and direct them towards the door windows.

Note
When demist button is selected, the air conditioning is automatically switched on, but the air conditioning switch will not illuminate.

Heated rear window ⇨ 30.

Maximum cooling

Adjust the air flow by switching the fan to the desired speed.

Briefly open the windows so that hot air can disperse quickly.

- Switch on air conditioning .
- Switch on air circulation system .
- Push air distribution switch .
- Set temperature control to coldest level.
- Set fan speed to highest level.
- Open all vents.

Indication of settings

(Info-Display)

Each change of settings is indicated in the Info-Display for a few seconds.

Selected functions are indicated by the LED of the activated button.

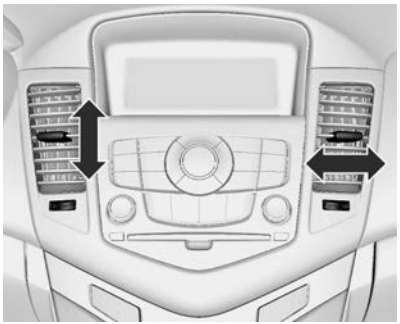
Note
Only fan speed, recirculation and mode show up on the Info-Display.

It will also show **AC on** or **AC off** when switching on or off the air conditioning via the air conditioning switch.

Air vents

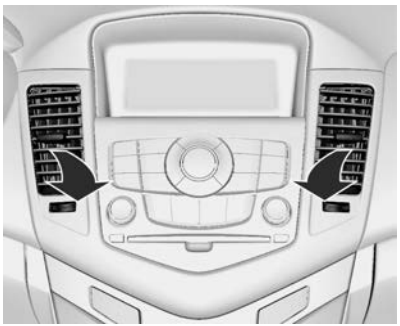
Adjustable air vents

At least one air vent must be open while cooling is on in order to prevent the evaporator from icing up due to lack of air movement.



To open vent, turn the adjuster wheel to .

Direct the flow of air by tilting and swivelling the slats.



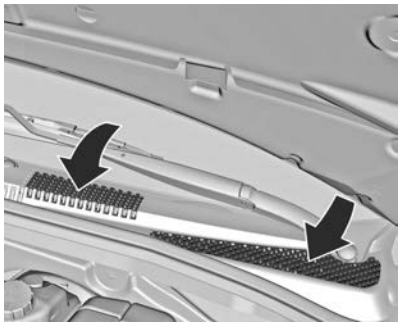
To close the vent, turn the adjuster wheel to ☒.

Fixed air vents

Additional air vents are located beneath the windscreen and door windows and in the footwells.

Maintenance

Air intake



The air intake in front of the windscreen in the engine compartment must be kept clear to allow air intake. Remove any leaves, dirt or snow.

Pollen filter

Manual controlled pollen filter

The filter cleans dust, soot, pollen, spore and smell (combi filter) from the air entering the vehicle through the air intake.

Air conditioning regular operation

In order to ensure continuously efficient performance, cooling must be operated for a few minutes once a month, irrespective of the weather and time of year. Operation with cooling may not be possible when outside temperature is low.

Service

For optimal cooling performance, it is recommended to annually check the climate control system by your Holden Dealer.

- Functionality and pressure test
- Heating functionality
- Leakage check

- Check of drive belts
- Cleaning of condenser and evaporator drainage
- Performance check

Driving and operating

Driving hints 119
Starting and operating 119
Engine exhaust 122
Automatic transmission 124
Manual transmission 127
Brakes 128
Ride control systems 129
Cruise control 131
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Towing 136

Driving hints

Control of the vehicle

Never coast with engine not running

⚠ Danger

Many systems will not function in this situation (e.g. brake servo unit, power steering). Driving in this manner is a danger to yourself and others.

Pedals

To ensure the pedal travel is uninhibited, there must be no mats in the area of the pedals.

Starting and operating

New vehicle running-In

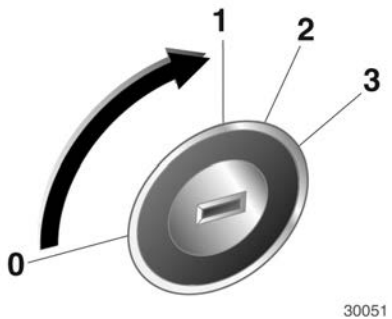
Use the following precautions for the first few hundred kilometres to improve the performance and economy of your vehicle and add to its long life:

- Avoid full-throttle starts.
- Do not race the engine.
- Avoid hard stops except in emergencies. This will allow your brakes to bed in properly.
- Avoid quick starts, sudden accelerations, and prolonged high-speed driving in order to avoid damage to the engine and to conserve fuel.
- Avoid full-throttle acceleration in low gear.
- Do not tow any other vehicle.

During the running-in period, fuel and engine oil consumption may be higher and the cleaning process of the diesel particle filter may take place more often.

Diesel particle filter ⇨ 122.

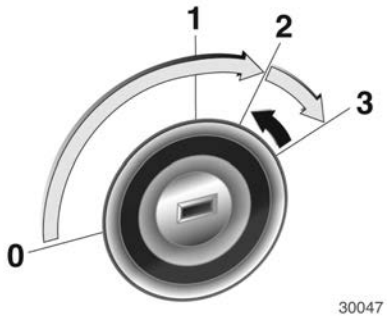
Ignition switch positions



0 = Ignition off
1 = Ignition off, steering wheel lock released
2 = Ignition on, diesel engine preheating
3 = Starting

Starting the engine

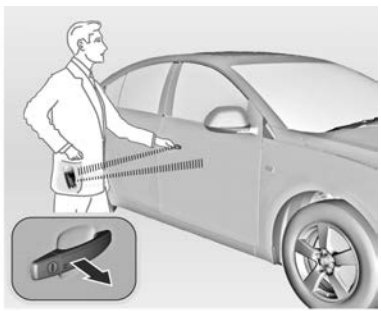
Starting engine with the ignition switch



- Turn the key to position **1**, move the steering wheel slightly to release the steering wheel lock
- Manual transmission: press and hold clutch pedal
- Automatic transmission: press and hold brake pedal and move shift lever to **P** or **N**
- Do not accelerate
- Diesel engine: turn the key to position **2** for preheating until control indicator goes out
- Turn the key to position **3** and release when engine is running

Before restarting or to switch off the engine, turn key back to **0**.

Starting engine with the Start/Stop button



- The electronic key must be inside the vehicle
- Manual transmission: depress clutch and brake

- Automatic transmission: depress brake and move shift lever to **P** or **N**
- Do not accelerate
- Press the Start/Stop button and release when the engine is running. The green LED will illuminate as soon as the engine is running

To switch off the engine, press the button again.

Switching off the engine

- Push **Start/Stop** button while engine is running and vehicle stationary to switch off the engine.
- In case of emergency the engine can be switched off while the vehicle is running: push **Start/Stop** button twice.

⚠Warning

When the engine is not running, considerably more force is needed to brake and steer.

Accessory power mode

Push **Start/Stop** button once without pressing clutch or brake pedal: **Accessory power mode** is active, the yellow LED in the button illuminates. In this mode, the steering wheel lock is released and some electrical functions are operable.

To start the engine from **Accessory power mode**, press clutch pedal (manual transmission) or brake pedal (automatic transmission) and push **Start/Stop** button once more.

Ignition on power mode

Push and hold **Start/Stop** button for 5 seconds without pressing clutch or brake pedal: **Ignition on power mode** is active, the green LED in the button illuminates. In this mode, all electrical functions are operable and Diesel engine is preheating.

To start the engine from **Ignition on power mode**, press clutch pedal (manual transmission) or brake pedal (automatic transmission) and push **Start/Stop** button once more.

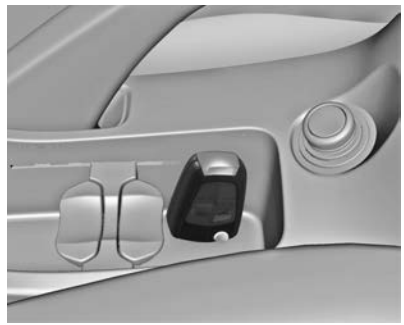
Note

Do not put the electronic key in the boot or in front of the Info-Display.

Emergency operation

If either the battery of the electronic key is weak or the remote control fails , the driver's door can be locked or unlocked with the mechanical key ⇨ 18.

The mechanical key can only lock or unlock the driver's door. Unlocking the entire vehicle ⇨ 20. On vehicles with anti-theft alarm system, the alarm may be triggered when the vehicle is unlocked. Deactivate the alarm by switching on the ignition.



Open the cover in the bottom of the cupholder in the centre console. Fold out the key bit of the electronic key and insert it into the keyway.

Press the **Start/Stop** button.

To switch off the engine, press the **Start/Stop** button for at least 2 seconds.

Lock the driver's door with the mechanical key. Locking the entire vehicle ⇨ 20.

This option is intended for emergencies only. Seek the assistance of your Holden Dealer.

Overrun cut-off

The fuel supply is automatically cut off during overrun, i.e. when the vehicle is driven with a gear engaged but accelerator is released.

Parking

- Do not park the vehicle on an easily ignitable surface. The high temperature of the exhaust system could ignite the surface.
- Always apply parking brake without pressing release button. Apply as firmly as possible on downhill or uphill slopes. Depress the footbrake at the same time to reduce operating force.
- Switch off the engine and ignition. Turn the steering wheel until the steering wheel lock engages.
- If the vehicle is on a level surface or uphill slope, engage first gear or set the shift lever to **P** before switching off the ignition. On an uphill slope, turn the front wheels away from the kerb.

  If the vehicle is on a downhill slope, engage reverse gear or set the shift lever to **P** before switching off the ignition. Turn the front wheels towards the kerb.
- Lock the vehicle.

Engine exhaust

⚠ Danger

Engine exhaust gases contain poisonous carbon monoxide, which is colourless and odourless and could be fatal if inhaled.

If exhaust gases enter the interior of the vehicle, open the windows. Have the cause of the fault rectified by your Holden Dealer.

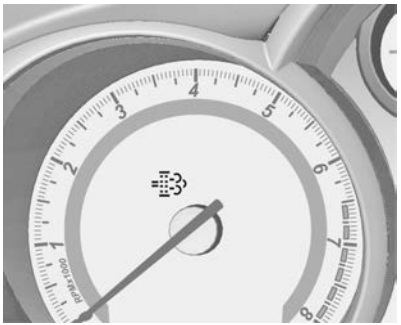
Avoid driving with an open boot lid, otherwise exhaust gases could enter the vehicle.

Diesel particle filter

(If fitted)

The diesel particle filter system filters harmful soot particles out of the exhaust gases. The system includes a self-cleaning function that runs automatically during driving without any notification. The filter is cleaned by periodically burning off the soot particles at high temperature. This

process takes place automatically under set driving conditions and may take up to 25 minutes. Typically it needs between 7 and 12 minutes. Fuel consumption may be higher during this period. The emission of smells and smoke during this process is normal.



Under certain driving conditions, e.g. short distances, the system cannot clean itself automatically.

If cleaning of the filter is required and if previous driving conditions did not enable automatic cleaning, this will be indicated by the control indicator and **CodE 55** in the Driver Information Centre.

illuminates when diesel particle filter requires cleaning. Start cleaning process as soon as possible.

flashes when diesel particle filter is full. Start cleaning process immediately to avoid damage to the engine.

Cleaning process

To activate cleaning process, continue driving, keeping engine speed above 2000 revolutions per minute. Shift down a gear if necessary. Diesel particle filter cleaning is then started.

If is additionally illuminated, cleaning is not possible. Seek the assistance of your Holden Dealer.

Caution
If the cleaning process is interrupted, there is a risk of provoking severe engine damage.

Cleaning takes place quickest at high engine speeds and loads.

Do not switch off the engine until the cleaning process is complete. The control indicator extinguishes as soon as the self-cleaning operation is complete.

Catalytic converter

The catalytic converter reduces the amount of harmful substances in the exhaust gas.

Caution
Fuel specifications other than those listed on pages ⇨ 133, ⇨ 189 could damage the catalytic converter or electronic components. Unburnt petrol will overheat and damage the catalytic converter. Therefore avoid excessive use of the starter, running the fuel tank dry and starting the engine by pushing or towing.

In the event of misfiring, uneven engine running, a reduction in engine performance or other unusual problems, have the cause of the fault rectified by your Holden Dealer as soon as possible. In an emergency, driving can be continued for a short period, keeping vehicle speed and engine speed low.

Automatic transmission

The automatic transmission permits manual gear-shifting (manual mode) or automatic gear-shifting (automatic mode).

Transmission display

The mode or selected gear is shown in the transmission display.

Different displays are used depending on model.

Shift lever

P = park position, wheels are locked, engage only when the vehicle is stationary and the parking brake is applied
R = reverse gear, engage only when vehicle is stationary
N = neutral
D = automatic mode with all gears.

The shift lever is locked in **P**. To move, switch on ignition, apply brake pedal and push release button.

To engage **P** or **R**, push the release button.

To start the engine, press the brake pedal in either **P** or **N** position.

Do not accelerate while engaging a gear. Never depress the accelerator pedal and brake pedal at the same time.

When a gear is engaged, the vehicle slowly begins to creep when the brake is released.

Engine braking

To utilise the engine braking effect, select a lower gear in good time when driving downhill.

Refer to manual mode ⇨ 125

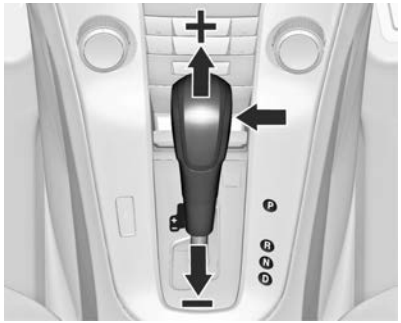
Rocking the vehicle

Rocking the vehicle is only permissible if the vehicle is stuck in sand, mud or snow. Move the shift lever between **D** and **R** in a repeat pattern. Do not race the engine and avoid sudden acceleration.

Parking

Apply the parking brake, engage **P** and remove ignition key.

Manual mode



Move shift lever out of position **D** towards the left and then forwards or backwards.

+ = Shift to a higher gear.

– = Shift to a lower gear.

If a higher gear is selected when vehicle speed is too low, or a lower gear when vehicle speed is too high, the shift is not executed.

If engine speed is too low, the transmission automatically shifts to a lower gear above a specific vehicle speed.

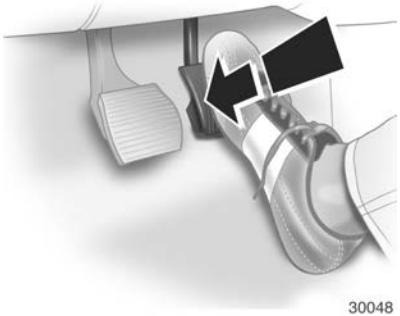
No automatic shifting to a higher gear takes place at high engine revolutions.

For reasons of safety, kickdown is also available in manual mode.

Electronic driving programmes

- Following a cold start, the operating temperature programme increases engine speed to quickly bring the catalytic converter to the required temperature.
- The automatic neutral shift function automatically shifts to idling when the vehicle is stopped with a forward gear engaged.

Kickdown



If the accelerator pedal is pressed past the pressure point, the transmission shifts to a lower gear depending on engine speed.

Fault

In the event of a fault, illuminates. Additionally a code number is displayed in the Driver Information Centre. Vehicle messages ⇨ 70.

The transmission no longer shifts automatically. Continued travel is possible with manual shifting.

Only the highest gear is available. Depending on the fault, 2nd gear may also be available in manual mode.

Have the cause of the fault remedied by your Holden Dealer.

Interruption of power supply

In the event of an interruption of power supply, the shift lever cannot be moved out of the **P** position. The ignition key cannot be moved out of the ignition lock.

If the battery is discharged, start the vehicle using jump leads ⇨ 177.

If the battery is not the cause of the fault, release shift lever and remove ignition key from ignition lock.

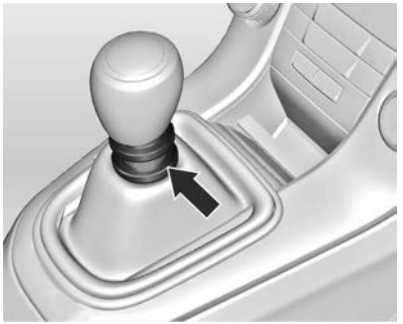
Release shift lever

1. Apply parking brake.

2. Open cover to the right of the shift lever.

3. Insert a screwdriver into the opening as far as it will go and move the shift lever out of **P**. If **P** is engaged again, the shift lever will be locked in position again. Have the cause of the power supply interruption remedied by your Holden Dealer.
4. Close cover.

Manual transmission



Reverse: when the vehicle is stationary, depress the clutch pedal and then pull up the ring on the shift lever and engage the gear.

If the gear does not engage, set the lever in neutral, release the clutch pedal and depress again; then repeat gear selection.

Do not grind the clutch unnecessarily.

When operating, depress the clutch pedal completely. Do not use the pedal as a foot rest.

Caution
It is not advisable to drive with your hand resting on the shift lever.

Brakes

The brake system comprises two independent brake circuits.

If a brake circuit fails, the vehicle can still be braked using the other brake circuit. However, braking effect is achieved only when the brake pedal is depressed firmly. Considerably more force is needed for this. The braking distance is extended. Seek the assistance of your Holden Dealer before continuing your journey.

When the engine is not running, the support of the brake servo unit disappears once the brake pedal has been depressed once or twice. Braking effect is not reduced, but braking requires significantly greater force. It is especially important to bear this in mind when being towed.

Control indicator ⓘ ⇨ 64.

Antilock brake system

Antilock brake system (ABS) prevents the wheels from locking.

ABS starts to regulate brake pressure as soon as a wheel shows a tendency to lock. The vehicle remains steerable, even during hard braking.

ABS control is made apparent through a pulse in the brake pedal and the noise of the regulation process.

For optimum braking, keep the brake pedal fully depressed throughout the braking process, despite the fact that the pedal is pulsating. Do not reduce the pressure on the pedal.

Control indicator (ABS) ⇨ 64.

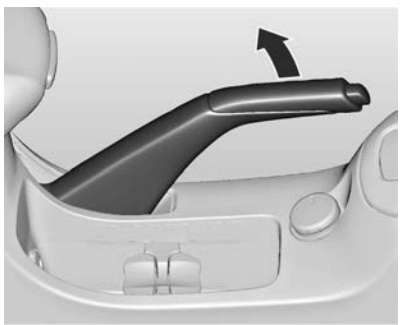
Fault

⚠Warning

If there is a fault in the ABS, the wheels may be liable to lock due to braking that is heavier than normal. The advantages of ABS are no longer available. During hard braking, the vehicle can no longer be steered and may swerve.

Have the cause of the fault remedied by your Holden Dealer.

Parking brake



Always apply parking brake firmly without operating the release button, and apply as firmly as possible on a downhill or uphill slope.

When applying the parking brake, depress the foot brake firmly at the same time.

To release the parking brake, pull the lever up slightly, press the release button and fully lower the lever.

Control indicator ⓘ BRAKE ⇨ 64.

Brake assist

If the brake pedal is depressed quickly and forcefully, maximum brake force is automatically applied (full braking).

Maintain steady pressure on the brake pedal for as long as full braking is required. Maximum brake force is automatically reduced when the brake pedal is released.

Ride control systems

Traction control system

Traction control system (TC) improves driving stability when necessary, regardless of the type of road surface or tyre grip, by preventing the driving wheels from spinning.

As soon as the driving wheels start to spin, engine output is reduced and the wheels are braked individually. This considerably improves the driving stability of the vehicle on slippery road surfaces.

TC is operational as soon as the control indicator 🚗 extinguishes after engine start up.

When TC is active 🚗 flashes.

⚠Warning

Do not let this special safety feature tempt you into taking risks when driving.

Adapt speed to the road conditions.

Control indicator 🚗 ⇨ 65.

Deactivation

TC can be switched off when spinning of drive wheels is required: press button 🚗 for approx. 2 seconds.

Control indicator 🚗 illuminates.

TC is reactivated by pressing the button again.

TC is also reactivated the next time the ignition is switched on.

Electronic stability control

Electronic stability control (ESC) improves driving stability when necessary, regardless of the type of road surface or tyre grip. It also prevents the driving wheels from spinning.

As soon as the vehicle starts to swerve (understeer/oversteer), engine output is reduced and the wheels are braked individually. This considerably improves the driving stability of the vehicle on slippery road surfaces.

ESC is operational as soon as the control indicator extinguishes after engine start up.

When ESC is active flashes.

⚠Warning

Do not let this special safety feature tempt you into taking risks when driving.

Adapt speed to the road conditions.

Control indicator ⇨ 65.

Deactivation

For very high-performance driving ESC can be deactivated: hold button depressed for approx. 7 seconds.

Control indicator illuminates.

ESC is reactivated by pressing the button again. If the TC System was previously disabled, both TC and ESC are reactivated.

ESC is also reactivated the next time the ignition is switched on.

Cruise control

The cruise control can store and maintain speeds. Deviations from the stored speeds may occur when driving uphill or downhill.

For safety reasons the cruise control cannot be activated until the foot brake has been operated once after engine start up.

With automatic transmission, only activate cruise control in automatic mode.

Control indicator ⏲ ⇨ 67.

Switching on

Press rocker switch ⏲ at the upper end, control indicator ⏲ illuminates white.

Activation

Accelerate to the desired speed and turn thumb wheel to **SET/-**, the current speed is stored and maintained. Control indicator ⏲ illuminates green. Accelerator pedal can be released.

Vehicle speed can be increased by depressing the accelerator pedal. When the accelerator pedal is released, the previously stored speed is resumed.

The gear can be changed while the cruise control is activated.

Increase speed

With cruise control active, hold thumb wheel turned to **RES/+** or briefly turn to **RES/+** repeatedly: speed increases continuously or in small increments.

Alternatively accelerate to the desired speed and store by turning to **RES/+**.

Reduce speed

With cruise control active, hold thumb wheel turned to **SET/-** or briefly turn to **SET/-** repeatedly: speed decreases continuously or in small increments.

Deactivation

Press button ⏲, control indicator ⏲ illuminates white. Cruise control is deactivated. The stored speed is maintained.

Automatic deactivation:

- vehicle speed below approx. 30 km/h,
- the brake pedal is depressed,
- the clutch pedal is depressed for more than a few seconds,
- shift lever in **N**,
- the Traction Control system or Electronic Stability Control is operating.

Resume stored speed

Turn thumb wheel to **RES/+** at a speed above 40 km/h. The stored speed will be obtained.

Switching off

Press rocker switch ⏲ at the lower end, control indicator ⏲ is off. The stored speed is deleted. Switching off the ignition deletes also the stored speed.

Object detection systems

Parking assist

(If fitted)

The parking assist makes parking easier by measuring the distance between the vehicle and rear obstacles, and giving acoustic signals. It is the driver, however, who bears full responsibility for parking manoeuvre.

The system consists of four ultrasonic parking sensors in the rear bumper.

Control indicator P⫻▲ ⇨ 65.

Note

Attached parts in the detection area cause system malfunction.

Activation

When reverse gear is engaged, the system is activated automatically.

An obstacle is indicated by acoustic warnings. The interval between the warnings becomes shorter as the vehicle gets closer to the obstacle. When the distance is less than 40 cm, the acoustic warning sounds continuously.

Deactivation

The system is deactivated automatically when:

- the vehicle is driven above 10 km/h
- the vehicle is parked
- a fault in the system occurs.

Fault

In the event of a fault in the system, P⫻▲ illuminates.

Additionally if the system does not work due to temporary conditions like snow covered sensors, P illuminates.

Important hints for using the parking assist systems

⚠Warning

Under certain circumstances, various reflective surfaces on objects or clothing as well as external noise sources may cause the system to fail to detect obstacles.

Caution

Sensor performance may be reduced when sensors are covered, e.g. by ice or snow.

Performance of the parking assist system may be reduced due to heavy loading.

Special conditions apply if there are taller vehicles involved (e.g. off-road vehicles, mini vans, vans). Object identification in the upper part of these vehicles cannot be guaranteed.

Objects with a very small reflection cross section, such as objects of narrow size or soft materials, may not be detected by the system.

Parking assist will not avoid a collision with objects which are outside the detection range of the sensors.

Note

Sensor could detect a nonexisting object (echo disturbance) caused by external acoustical or mechanic disturbances.

Fuel

Fuel for petrol engines

Use clean, unleaded fuel of at least 91 octane rating. High octane (premium unleaded) can be used and will provide slight improvement in engine power and torque. Purchasing your fuel from a reputable fuel retailer may reduce the risk of purchasing fuel which contains abnormal fuel properties.

Caution

Use of fuel with too low an octane rating could lead to uncontrolled combustion and engine damage.

Equivalent standardised fuels with an ethanol content of max. 10% by volume may be used.

⚠Warning

Under no circumstances should you use fuel containing more than 10% ethanol. Use of such fuels may result in engine malfunction, starting and operating difficulties, and materials degradation. These adverse effects could result in permanent damage to your vehicle and the risk of personal injury. Purchasing your fuel from a reputable fuel retailer may reduce the risk of purchasing fuel with more than 10% ethanol or fuel which contains abnormal fuel properties.

Fuel for diesel engines

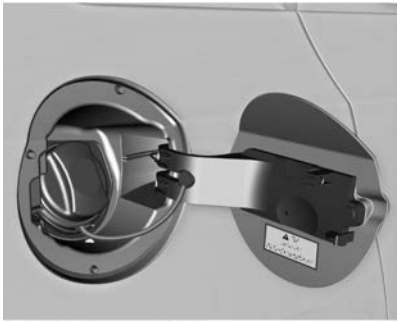
Only use commercially available diesel fuel meeting the requirements of Euro standard EN 590 to operate diesel engines. The use of biodiesel containing up to 5% fatty acid methyl ester ("FAME"), also known as "B5", is also permitted provided that the FAME complies with Euro standard EN 14214 and the resultant B5 blend complies with Euro standard EN 590.

Do not use marine diesel oils, heating oils or entirely or partially plant-based diesel fuels, such as rape seed oil or bio diesel containing more than 5 % FAME.

⚠Warning

Use only biodiesel blends with a maximum of 5% FAME and which meet Euro standard EN 590. Purchasing your fuel from a reputable fuel retailer may reduce the risk of purchasing fuel with more than 5 % FAME or fuel which contains abnormal fuel properties. Using a biodiesel that does not have the certification referred to above, or has FAME content exceeding 5%, may cause serious damage to your vehicle (including engine failure). Damage attributable to the use of non-certified biodiesel is not covered by your New Vehicle Warranty. In no event will GM Holden be responsible or bear any liability for any damage or loss that may arise in connection with the use of any fuel that does not meet this specification.

Refuelling



⚠Danger

Before refuelling, switch off engine and mobile phones.

Follow the operating and safety instructions of the filling station when refuelling.

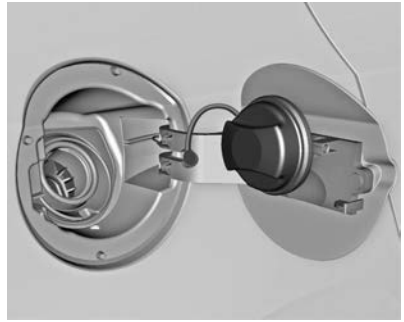
⚠Danger

Fuel is flammable and explosive. No smoking. No naked flames or sparks.

If you can smell fuel in your vehicle, have the cause of this remedied immediately by your Holden Dealer.

Fuel filler flap is located at right rear side of vehicle.

The fuel filler flap can only be opened if the vehicle is unlocked. Release the fuel filler flap by pushing the flap.



The fuel filler cap can be retained in the bracket on the fuel filler flap.

Caution

Wipe off any overflowing fuel immediately.

Fuel filler cap

Only a genuine fuel filler cap provides full functionality. Diesel-engined vehicles have special fuel filler caps.

Towing

General information

The word 'Trailer' is used throughout this section and is intended to include all types of towed vehicles, such as a caravan, boat trailer or any other special purpose trailer.

The vehicle is designed primarily as a passenger vehicle, so handling, durability and economy may be affected by towing a trailer. Your Holden Dealer will help supply and install towing equipment to suit your requirements.

Trailer towing ⇨ 137.

Trailer towing

Overloading

Never exceed the loads given for the towing equipment fitted to the vehicle. For your safety and the vehicle's durability, all mandatory equipment must be fitted. Otherwise you may void the New Vehicle Warranty, to the extent that Holden considers the overloading or missing equipment to have affected the specifications or quality of the vehicle.

Maximum towing capacities (kg)

Engine	Transmission	Type	Caravan/ Trailer
Petrol (1.4L)	Manual transmission	With brake	1200
		Without brake	695
	Automatic transmission	With brake	1200
		Without brake	695
Petrol (1.8L)	Manual transmission	With brake	1200
		Without brake	695
	Automatic transmission	With brake	1200
		Without brake	695

Engine	Transmission	Type	Caravan/ Trailer
Diesel (2.0L)	Manual transmission	With brake	1200
		Without brake	750
	Automatic transmission	With brake	1200
		Without brake	750

Mandatory equipment: Holden 1,200 kg rated towbar and Holden trailer wiring harness.

⚠Warning

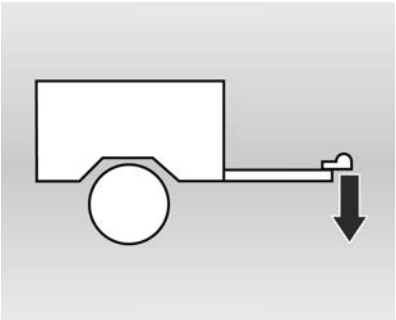
Holden towing equipment is recommended where it is available. Where it is not available, no recommendation is made as to the make of equipment to be used. Holden will not accept liability for defects occurring in inappropriate towing equipment, for defects in the vehicle arising from the use of such equipment or for loss or injury caused by use of such equipment.

The use of inappropriate equipment may void your New Vehicle Warranty to the extent that Holden considers the overloading or missing equipment to have affected the specifications or quality of your vehicle.

Towing with Electronic Stability Control (ESC)

You may hear noise from the ESC modulator when it is working. The ESC is reacting to the vehicle movement caused by the trailer, which mainly occurs during cornering. This is considered normal when towing heavier trailers.

Recommended procedure for attaching a trailer



When a trailer is hitched to the vehicle, it places a weight on the tow bar. This weight is called the 'tow ball load'.

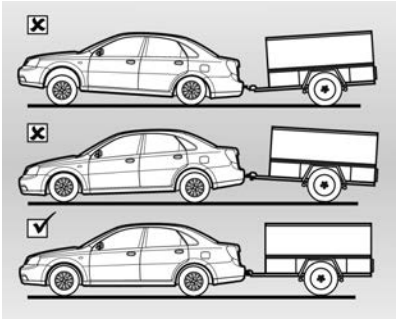
If the tow ball load is too light or too heavy, the steering and handling of the vehicle may be affected.

As a general guideline, for single axle trailers, the ball load should be approximately 10% of the loaded trailer mass. For heavy trailers with more than one axle, the ball load should be in the range of 5% - 10% of the loaded trailer mass.

Note
The tow ball load should not exceed 75 kg.

The tow ball load can be adjusted by correctly packing the contents of the trailer. For example, by moving items forwards or backwards within the trailer so as to change the balance of the trailer.

Check the tow ball load before coupling the trailer to the towing vehicle.



If the attitude of the vehicle is compromised, adjust the vehicle and trailer load within the specifications to improve the attitude. If the vehicle's attitude cannot be corrected, use a load distribution hitch.

Note

At no time may the maximum towing capacity exceed the maximums specified. Refer to Maximum towing capacity previously in this chapter.

At no time may the total rear axle load exceed the maximums specified. Refer to Loading the vehicle previously in this chapter.

Towing precautions

- When heavily loading your vehicle or when towing, your tyres should be inflated to the maximum recommended pressure. Refer to tyre pressure placard and information about tyre pressures ⇨ 166.
- Tighten the tow ball retaining nut to 140 Nm (Newton Meters) and check the torque frequently.
- Vehicles handle differently when towing. It is a good idea to make a couple of short distance trips with the trailer before setting off on a longer journey.
- Have your vehicle correctly maintained and serviced.

- Have the trailer maintained and serviced, with particular attention to the condition of the brakes, tyres, suspension, wheel bearings, lighting and tow coupling.
- Use extended-arm rear view mirrors on both sides of the vehicle if necessary.
- Headlamps may need realignment after the loaded trailer has been hitched.
- Use a lower gear and the brakes when descending steep hills.
- Do not use axle-mounted hitches as this will damage the vehicle.
- Ensure that no part of the tow bar (including the tongue or tow ball) obscures the vehicle's licence plate. If necessary, remove the tow bar tongue when it is not in use.
- If a tow bar is removed: Ensure that any mounting holes in the underbody are properly sealed to prevent the possible entry of exhaust fumes, dust and water.

Trailer brakes

- Trailer brakes are mandatory on trailers weighing 695 kg (1.4L and 1.8L Petrol), 750 kg (2.0L Diesel) and over when loaded. The brakes on the trailer must be designed to cope with the braking requirements of the trailer under all towing conditions, without adversely affecting the brakes on the vehicle.
- Contact the appropriate regulatory body in your State or Territory for the legal requirements of trailer brakes.

Fitting accessories (bull bars, driving lamps, insect screens, etc)

When fitting accessories, take care not to restrict airflow through the air conditioner condenser and the radiator, as this may lead to engine overheating and/or poor air conditioning performance.

The mass of all accessories must be considered when evaluating the vehicle's overall loaded condition.

Remember that bull bars may affect airbag operation.

Running in before towing

Holden recommends that you drive your new vehicle for at least 1,500 km before towing. If you must tow in the first 1,500 km of the vehicle's life, do not exceed 80 km/h.

The same applies if the vehicle is equipped with a new or reconditioned engine, transmission or axle.

Vehicle maintenance

More frequent vehicle maintenance is required when using the vehicle for towing. Refer to the Service/Warranty Booklet in the vehicle's glovebox.

Vehicle care

General information 143
Vehicle checks 144
Bulb replacement 153
Electrical system 161
Vehicle tools 165
Wheels and tyres 166
Jump starting 177
Towing 178
Appearance care 179

General information

Accessories and vehicle modifications

We recommend to use Genuine Parts and Accessories and factory approved parts specific for your vehicle type. We cannot assess or guarantee the suitability or performance of other products, even if they have regulatory or other approval.

Do not make any modifications to the electrical system, e.g. changes of electronic control units (chip tuning).

Vehicle storage

Storage for a long period of time

If the vehicle is to be stored for several months:

- Wash and wax the vehicle.
- Clean and preserve rubber seals.
- Fill up fuel tank completely.
- Change engine oil.
- Drain washer fluid reservoir.
- Check coolant anti-freeze and corrosion protection.
- Adjust tyre pressure to the value specified for full load.
- Park vehicle in dry, well-ventilated place. Engage first or reverse gear or set shift lever to **P**. Prevent the vehicle from rolling.
- Do not apply parking brake.
- Open bonnet, close all doors and lock the vehicle.
- Disconnect the clamp from the negative terminal of the vehicle battery. Beware that all systems are not functional, e.g. anti-theft alarm system.

Putting back into operation

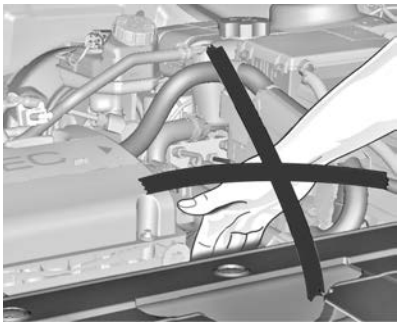
When the vehicle is to be put back into operation:

- Connect the clamp to the negative terminal of the vehicle battery. Activate the power window electronics.
- Check tyre pressure.
- Fill up the washer fluid reservoir.
- Check the engine oil level.

- Check the coolant level.
- Fit the number plate if necessary.

Vehicle checks

Performing work



⚠Warning

Only perform engine compartment checks when the ignition is off.

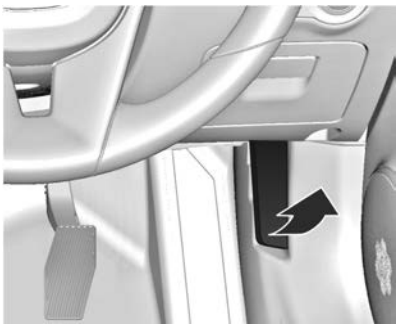
The cooling fan may start operating even if the ignition is off.

⚠Danger

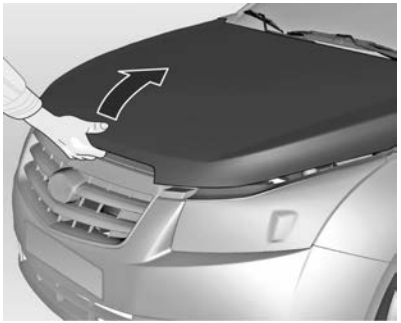
The ignition system uses extremely high voltage. Do not touch.

Bonnet

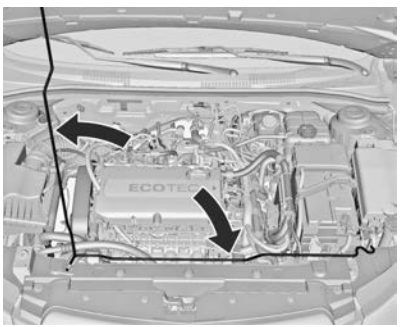
Opening



Pull the release lever and return it to its original position.



Push the safety catch to the right and open the bonnet.



Secure the bonnet support.

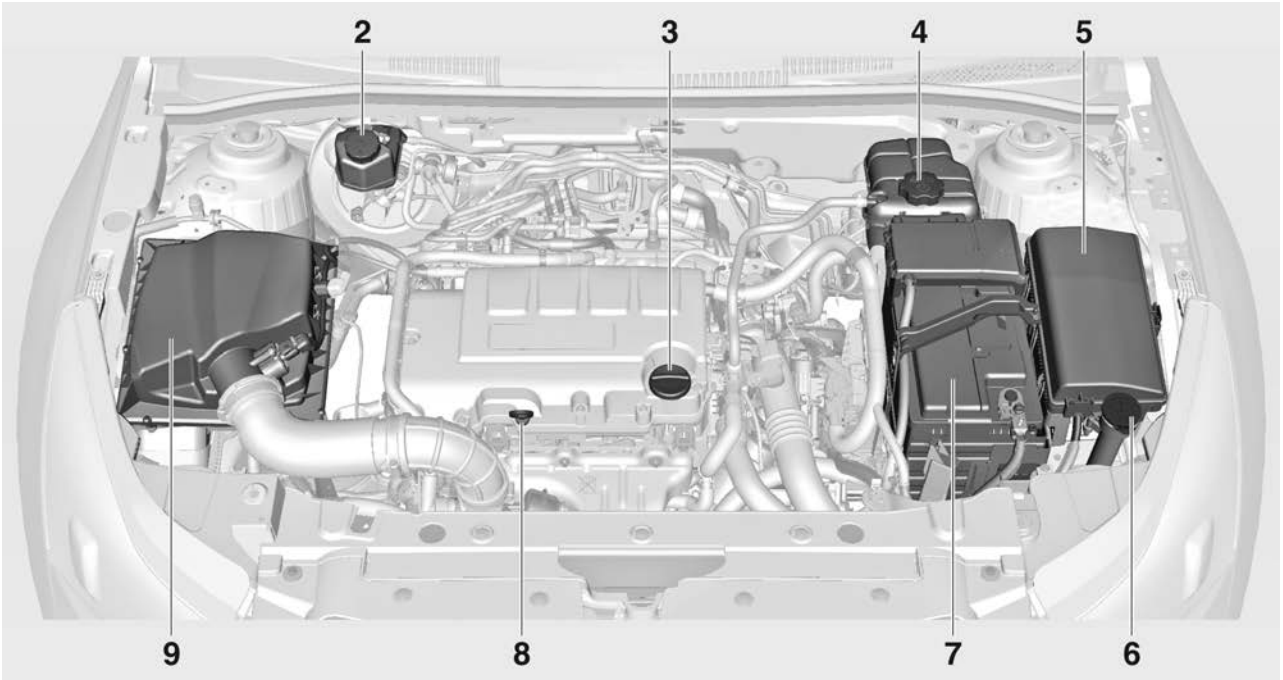
Closing

Before closing the bonnet, press the support into the holder.

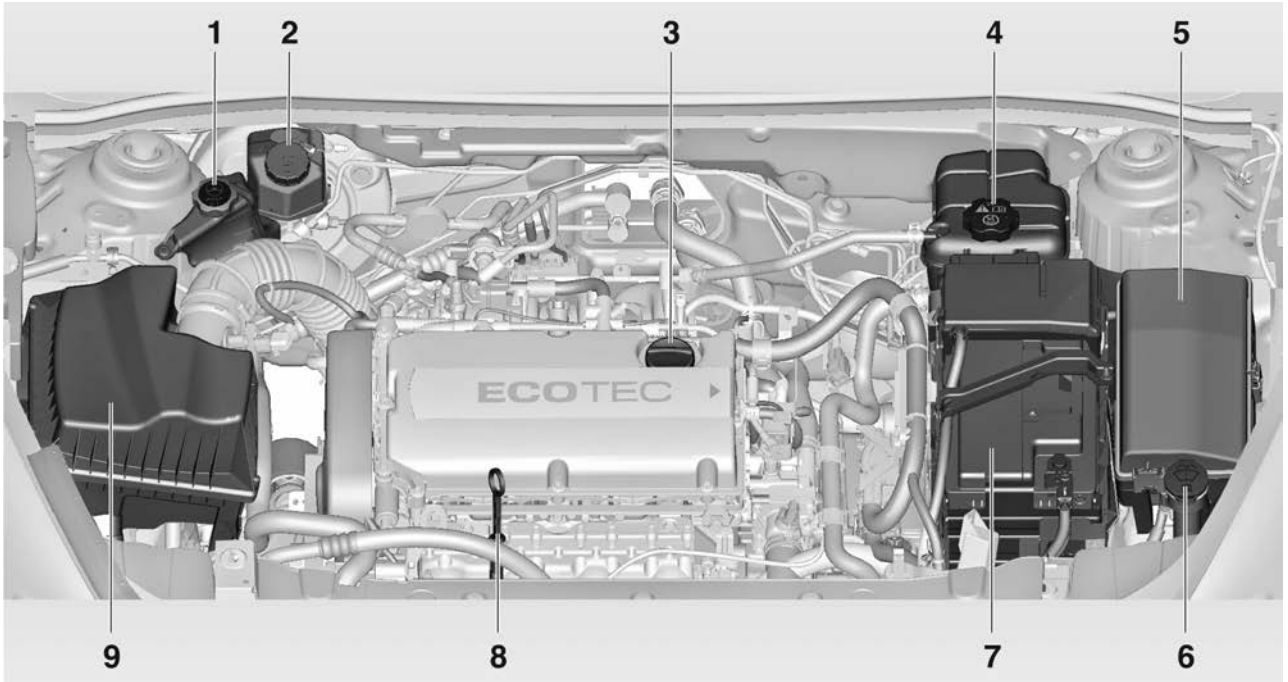
Lower the bonnet and allow it to drop into the catch. Check that the bonnet is engaged.

Engine compartment overview

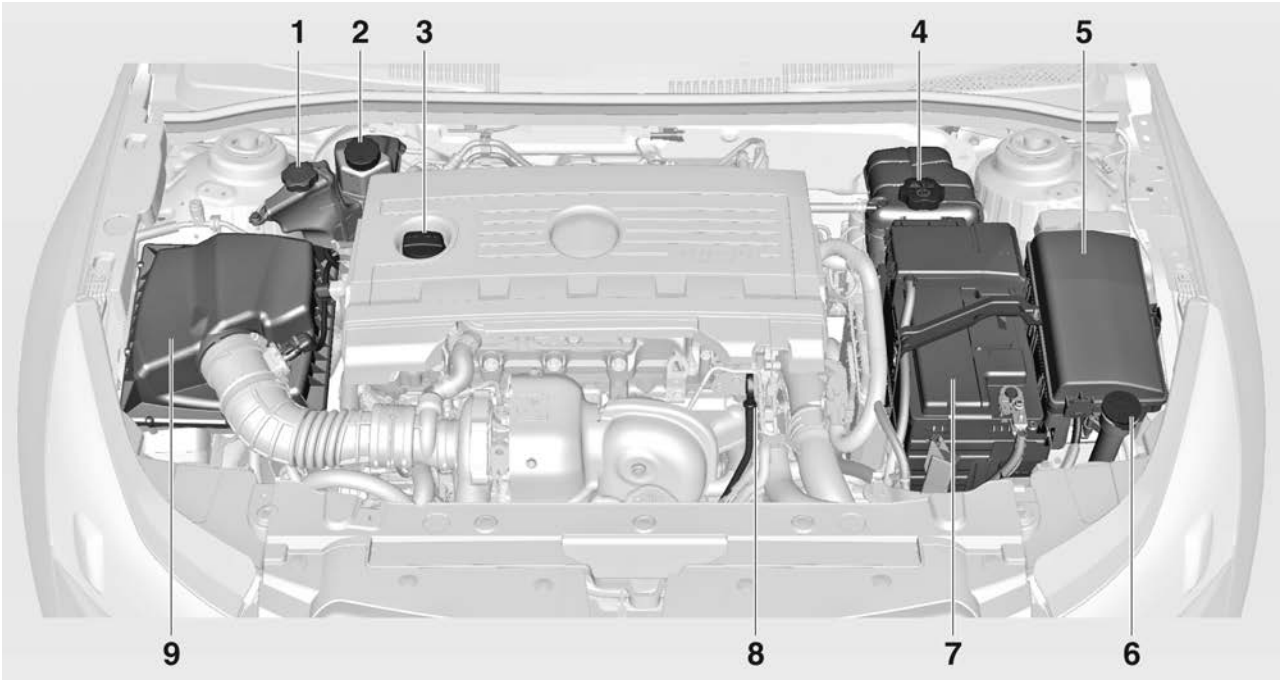
1.4L Petrol engine



1.8L Petrol engine



2.0L Diesel engine



1. Power steering fluid container ⇨ 151
2. Brake fluid container ⇨ 152
3. Engine oil cap ⇨ 149
4. Engine coolant container ⇨ 150
5. Fuse box ⇨ 162
6. Washer fluid container ⇨ 152
7. Battery ⇨ 152
8. Dipstick for engine oil level ⇨ 149
9. Engine air filter ⇨ 150

Engine oil

It is advisable to check the engine oil level manually before embarking on a long journey.

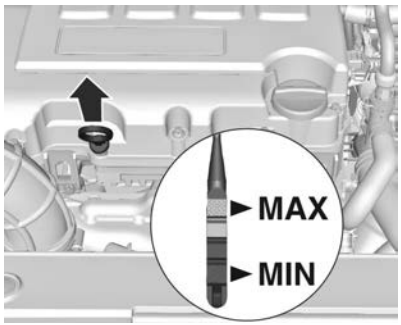
Check with the vehicle on a level surface. The engine must be at operating temperature and switched off for at least 10 minutes.

Pull out the dipstick, wipe it clean, insert it to the stop on the handle, pull out and read the engine oil level.

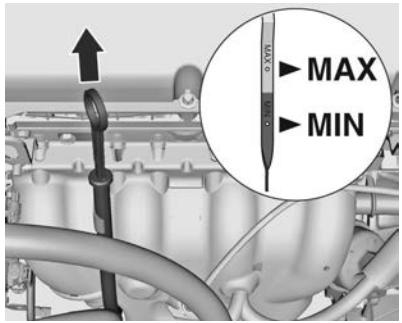
Insert dipstick to the stop on the handle and make half a turn.

Different dipsticks are used depending on engine variant.

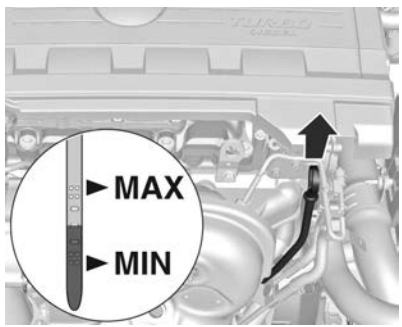
1.4L Petrol:



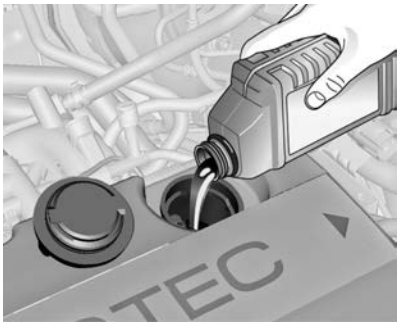
1.8L Petrol:



2.0L Diesel:



When the engine oil level has dropped to the **MIN** mark, top up engine oil.



Refer to the manufacturer's specifications on engine oil ⇨ 183.

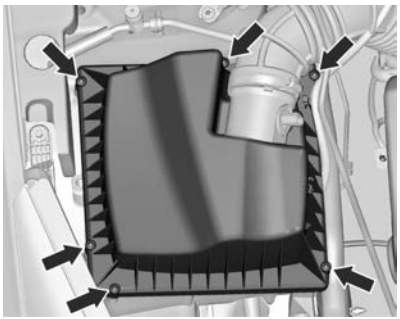
The engine oil level must not exceed the **MAX** mark on the dipstick.

Caution
Overfilled engine oil must be drained or suctioned out.

Replace oil cap and tighten it.

Caution
When driving at a slope, the warning code 79 might be displayed in the Driver Information Centre ⇨ 70. If the code disappears when driving in a flat area again, do not top up engine oil.

Engine air filter



To replace engine air filter unscrew 6 screws and remove air filter housing.

Engine coolant

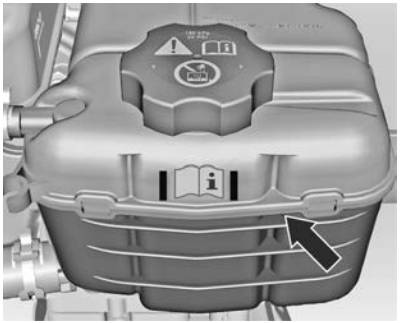
The coolant provides freeze protection down to approx. -28 °C.

⚠Warning
Do not spill coolant on the vehicle's exterior surfaces. It can damage the paintwork. If you do, wash it off immediately.

Caution
Only use approved anti-freeze.

Coolant level

Caution
Too low a coolant level can cause engine damage.



If the cooling system is cold, the coolant level should be above the filling line mark. Top up if the level is low.

⚠Warning

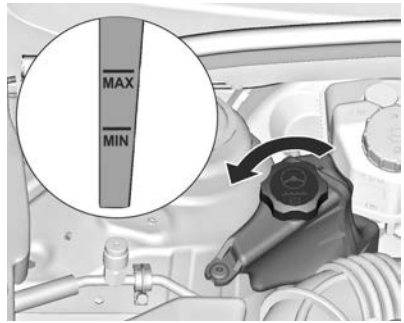
Allow the engine to cool before opening the cap. Carefully open the cap, relieving the pressure slowly.

Top up with antifreeze. If no antifreeze is available, use clean tap water or distilled water. Install the cap tightly. Have the antifreeze concentration checked and have the cause of the coolant loss remedied by your Holden Dealer.

Power steering fluid

Caution

Extremely small amounts of contamination can cause steering system damage and cause it to not work properly. Do not allow contaminates to come into contact with the fluid side of the reservoir cap/dipstick or to enter the reservoir.



Open the cap and remove. Wipe the dipstick dry and turn the cap in the reservoir. Open the cap again and read the power steering fluid level.

The power steering fluid level must be between the **MIN** and the **MAX** marks.

If the fluid level is too low, seek the assistance of your Holden Dealer.

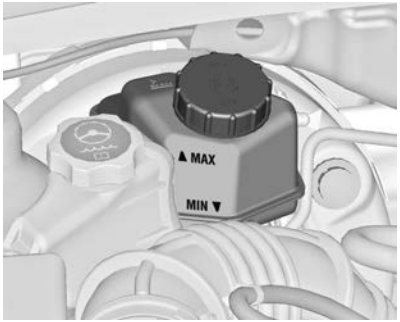
Washer fluid

Fill with clean water mixed with a suitable quantity of windscreen wash solution.

Brake fluid

⚠Warning

Brake fluid is poisonous and corrosive. Avoid contact with eyes, skin, fabrics and painted surfaces.



The brake fluid level must be between the **MIN** and the **MAX** marks.

When topping up, ensure maximum cleanliness as contamination of the brake fluid can lead to brake system malfunctions. Have the cause of the loss of brake fluid remedied by your Holden Dealer.

Only use high-performance brake fluid approved for the vehicle. Brake and clutch fluid ⇨ 183.

Battery

The vehicle battery is maintenance-free.

Caution

A specifically developed battery with a ventilation system is required for this vehicle. Only use a manufacturer recommended battery as a replacement.

Non-use of the vehicle for more than 4 weeks can lead to battery discharge. Disconnect the clamp from the negative terminal of the vehicle battery.

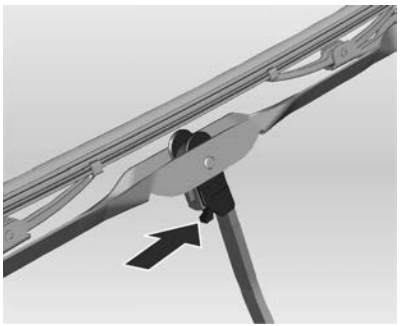
Ensure the ignition is switched off before connecting or disconnecting the vehicle battery.

Battery discharge protection ⇨ 82.

Diesel fuel system bleeding

If the tank has been run dry, the diesel fuel system must be bled. Switch on the ignition 3 times for 15 seconds at a time. Then start the engine for a maximum of 40 seconds. Repeat this process after no less than 5 seconds. If the engine fails to start, seek the assistance of your Holden Dealer.

Wiper blade replacement



Lift wiper arm. Move release lever and detach wiper blade.

Bulb replacement

Switch off the ignition and switch off the relevant switch or close the doors.

Only hold a new bulb at the base! Do not touch the bulb glass with bare hands.

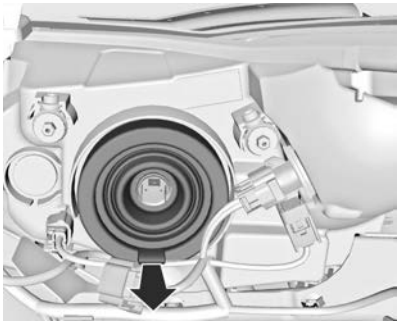
Use only the same bulb type for replacement.

Replace headlight bulbs from within the engine compartment.

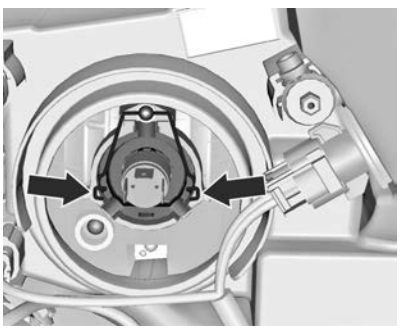
Halogen headlights

Low beam and high beam

1. Detach plug connector from bulb.



2. Remove protective cover.

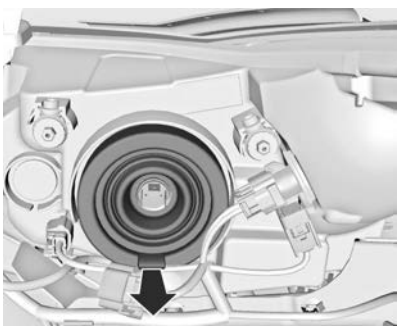


3. Press spring clip, disengage and swivel it upward.

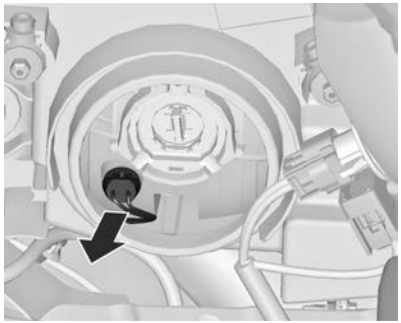
4. Remove bulb from reflector housing.
5. When fitting a new bulb, engage the lugs in the recesses on the reflector.
6. Engage the spring clip.
7. Place headlamp protective cover in position.
8. Plug connector onto bulb.

Parking lights

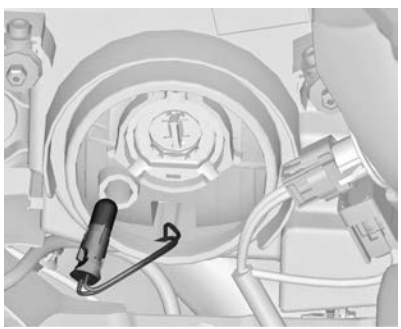
1. Detach plug connector from bulb.



2. Remove protective cover.



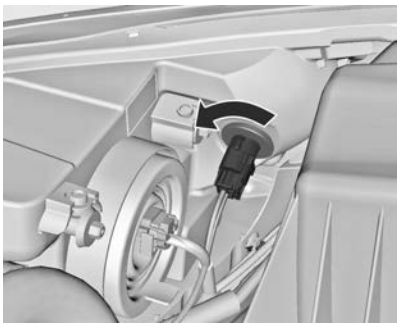
3. Remove side light bulb holder from reflector.



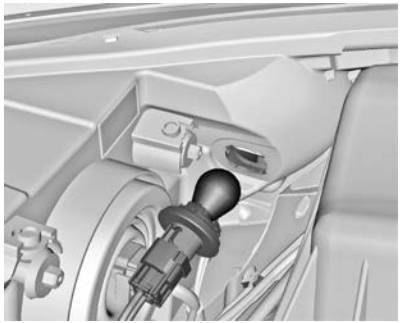
4. Remove bulb from socket.
5. Insert new bulb.

6. Insert holder in reflector.
7. Place headlamp protective cover in position.
8. Plug connector onto bulb.

Front turn signal lights



1. Rotate bulb holder anti-clockwise and disengage.



2. Push bulb into socket slightly, rotate anti-clockwise, remove and renew bulb.
3. Insert bulb holder in reflector, rotate clockwise to engage.

Fog lights

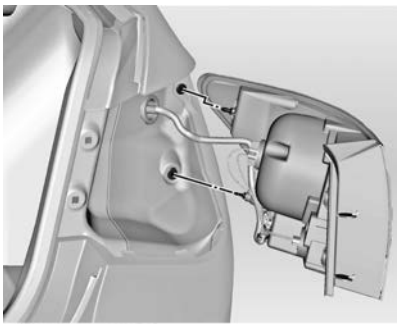
Have bulbs replaced by your Holden Dealer.

Tail lights

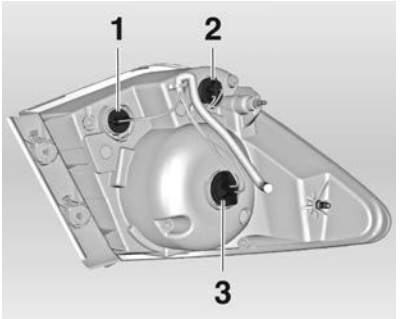
4 Door sedan

1. Open both covers.

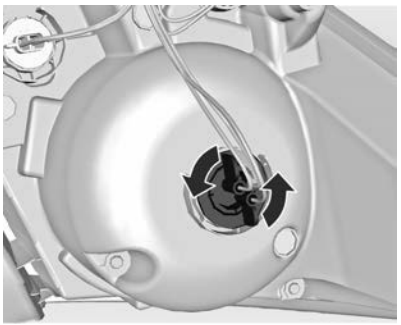
2. Unscrew both screws.



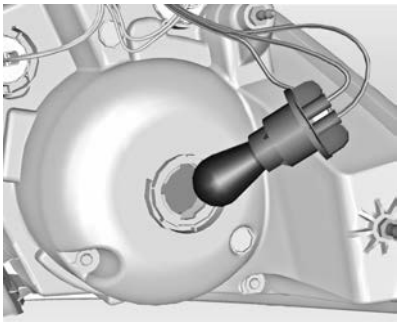
3. Remove tail light assembly. Take care that the cable duct remains in position.



4. Reverse light (**1**)
   Turn signal light (**2**)
   Tail light/brake light (**3**)

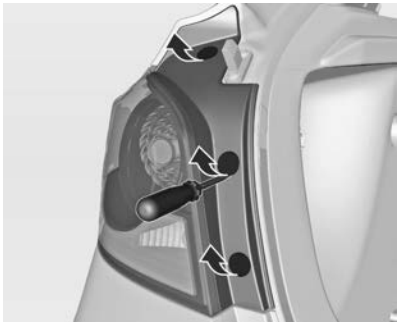


5. Rotate bulb holder anti-clockwise.

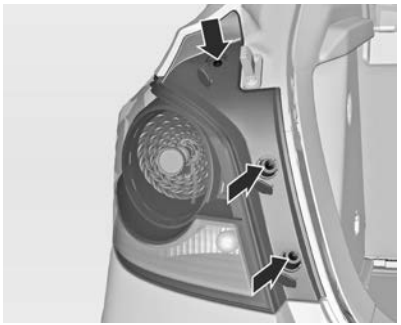


6. Remove bulb holder. Push bulb into socket slightly, rotate anti-clockwise, remove and renew bulb.
7. Insert bulb holder into the tail light assembly and rotate clockwise into place. Install tail light assembly in body and tighten screws. Close covers and engage.
8. Switch on ignition, operate and check all lights.

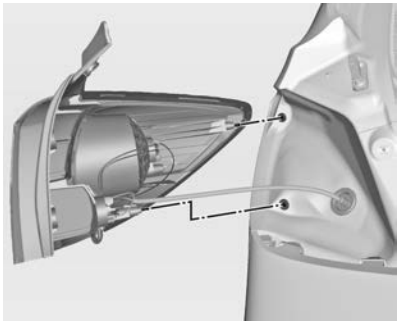
5 Door hatchback



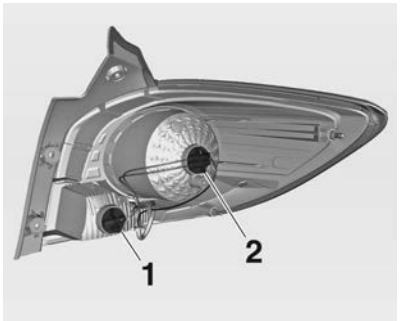
1. Open the three covers.



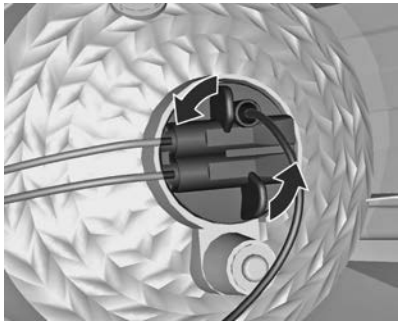
2. Unscrew the three screws.



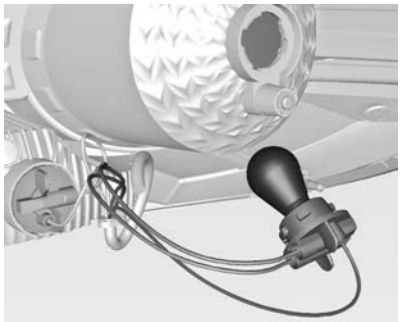
3. Remove tail light assembly. Take care that the cable duct remains in position.



4. Turn signal light (**1**)
   Tail light/brake light (**2**)



5. Rotate bulb holder anti-clockwise.



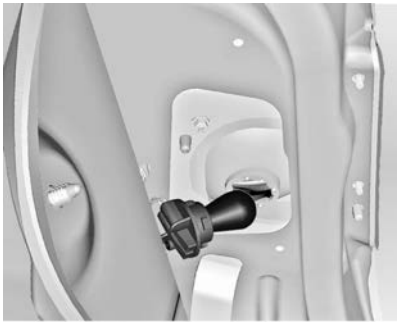
6. Remove bulb holder. Push bulb into socket slightly, rotate anti-clockwise, remove and renew bulb.
7. Insert bulb holder into the tail light assembly and screw into place. Connect wiring plug. Install tail light assembly in body and tighten screws. Close covers and engage.
8. Switch on ignition, operate and check all lights.

Reverse light

Have bulb replaced by a workshop.

Tail lights in boot lid

1. Remove the boot lid panelling.
2. Rotate bulb holder anti-clockwise.



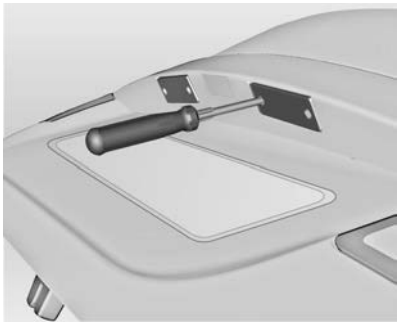
3. Remove bulb holder. Push bulb into socket slightly, rotate anti-clockwise, remove and renew bulb.
4. Insert bulb holder into boot. Refit the inner panelling to boot lid.
5. Switch on ignition, operate and check the lights.

Side turn signal lights

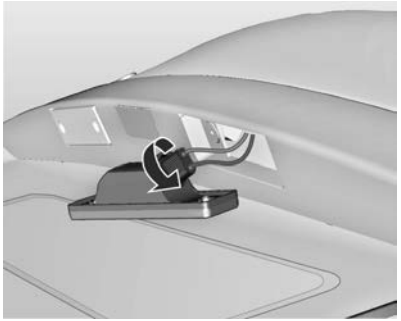
Have bulbs replaced by your Holden Dealer.

Number plate light

4 Door sedan



1. Unscrew both screws.



2. Remove bulb housing downward, taking care not to pull on the cable.

   Rotate bulb holder anti-clockwise to disengage.
3. Remove bulb from holder and renew bulb.
4. Insert bulb holder in bulb housing and rotate clockwise.
5. Insert bulb housing and secure using a screwdriver.

5 Door hatchback

1. Insert screwdriver in bulb housing, press to the side and release spring.
2. Remove bulb housing downward, taking care not to pull on the cable.

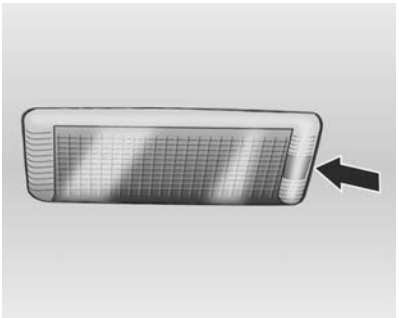
3. Rotate bulb holder anti-clockwise to disengage.
4. Remove bulb from holder and renew bulb.
5. Insert bulb holder in bulb housing and rotate clockwise.
6. Insert and engage bulb housing.

Interior lights

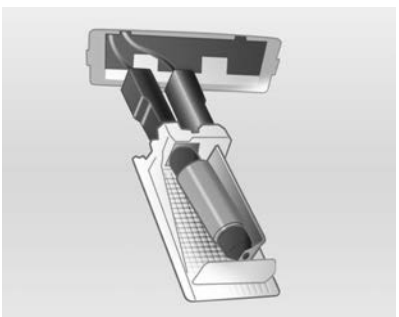
Courtesy light, reading lights

Have bulbs replaced by your Holden Dealer.

Boot compartment light



1. Prise the lamp out with a screwdriver.



2. Press bulb slightly towards spring clip and remove.
3. Insert new bulb.
4. Install lamp.

Instrument panel illumination

Have bulbs replaced by your Holden Dealer.

Electrical system

Fuses

Data on the replacement fuse must match the data on the defective fuse.

There are two fuse boxes in the vehicle:

- in the front left of the engine compartment,
- in the interior behind the glovebox.

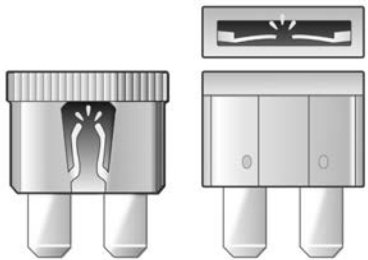
In a box above the positive terminal of the battery are some main fuses. If necessary have them changed by your Holden Dealer.

Before replacing a fuse, turn off the respective switch and the ignition.

A blown fuse can be recognised by its melted wire. Do not replace the fuse until the cause of the fault has been remedied.

Some circuits are protected by several fuses.

Fuses may also be inserted into a blank cavity, where there is no circuit.



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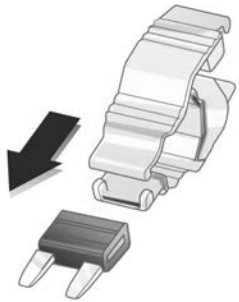
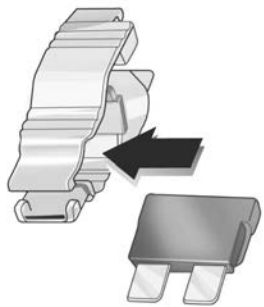
Fuse extractor

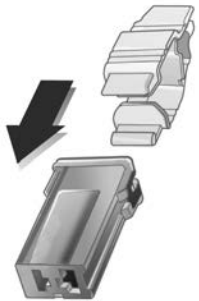
A fuse extractor may be located in the fuse box in the engine compartment.



30042



30042



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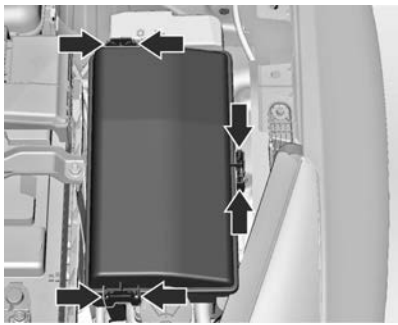
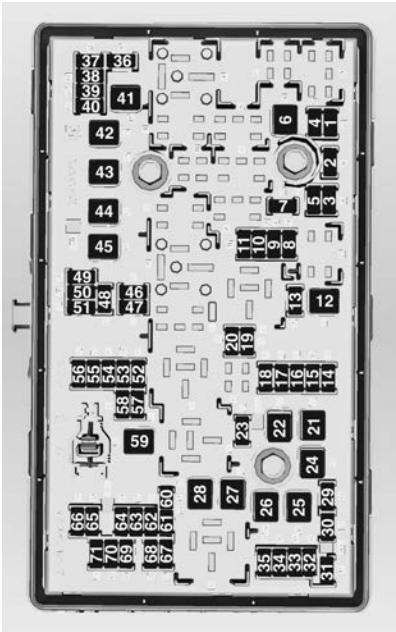
Place the fuse extractor on the various types of fuse from the top or side, and withdraw fuse.

Engine compartment fuse box



The fuse box is in the front left of the engine compartment.

Disengage the cover, lift it upwards and remove.



No.	Circuit
1	Transmission control module
2	Engine control module
3	–
4	Canister vent sol
5	Ignition
6	Front wipers
7	–
8	Fuel injection
9	Fuel injection
10	Engine control module
11	Lambda sensor
12	Starter solenoid
13	Canister vent sol
14	–
15	Rear wiper
16	Ignition
17	Ignition, Airbag

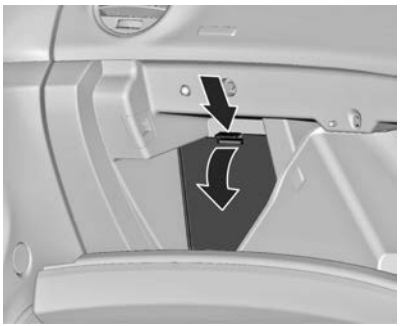
No.	Circuit
18	Fuel system control module
19	–
20	Fuel pump
21	Rear power windows
22	–
23	–
24	Front power windows
25	Electronic vacuum pump
26	ABS
27	Electronic key system
28	Heated rear window
29	–
30	ABS
31	Body control module
32	Body control module
33	Front seat heating
34	–

No.	Circuit
35	Infotainment system, Amplifier
36	–
37	High beam, right side
38	High beam, left side
39	–
40	–
41	–
42	Cooling fan
43	–
44	–
45	Cooling fan
46	Cooling fan
47	Lambda sensor
48	Fog lights
49	–
50	–
51	Horn

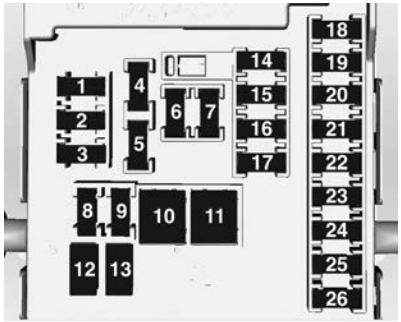
No.	Circuit
52	Instrument panel
53	Electrochromatic mirror
54	Light switch, Light control
55	Mirror folding
56	Windscreen washer
57	Steering column lock
58	–
59	Diesel fuel heating
60	Mirror heating
61	Mirror heating
62	Air conditioning
63	Rear window sensor
64	–
65	Rear fog lamp
66	Rear washer
67	Fuel system control module
68	–

No.	Circuit
69	Battery voltage sensor
70	Rain sensor
71	–

Instrument panel fuse box



The fuse box is located behind a cover in the glovebox. Open the glovebox and remove the cover.



No.	Circuit
1	Infotainment system, handsfree phone
2	–
3	Body control module
4	Infotainment system
5	Display/faceplate
6	Cigarette lighter
7	Power outlet
8	Body control module

No.	Circuit
9	Body control module
10	Body control module
11	Interior fan
12	–
13	Heated seats
14	Diagnostic connector
15	Airbag
16	Central locking system
17	Air conditioning system
18	Trailer wiring power
19	Shift lever
20	–
21	Instruments
22	Ignition, Electronic key system
23	Body control module
24	Body control module
25	Steering column lock
26	–

Vehicle tools

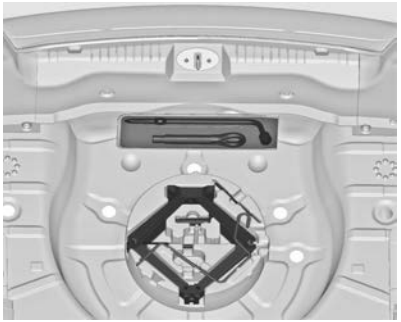
Tools

Vehicles with tyre repair kit

The tools and tyre repair kit are in a storage compartment below the floor cover in the boot.

Vehicles with spare wheel

The jack and the tools are in a stowage compartment in the boot below the spare wheel. Spare wheel ⇨ 176.



Wheels and tyres

Tyre condition, wheel condition

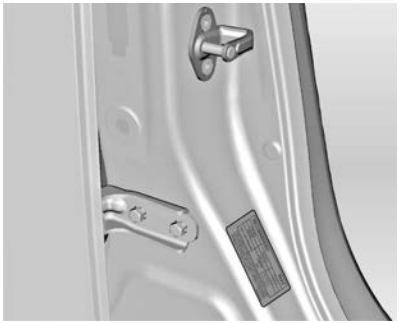
Drive over edges slowly and at right angles if possible. Driving over sharp edges can cause tyre and wheel damage. Do not trap tyres on the kerb when parking.

Regularly check the wheels and tyres for damage. Seek the assistance from your Holden Dealer in the event of damage or unusual tyre wear.

Tyre pressure

Check the pressure of cold tyres at least every 14 days and before any long journey. Do not forget the spare wheel.

Unscrew the valve cap.



Refer to the tyre pressure placard on the front right door frame.

The tyre pressure data refers to cold tyres.

Always inflate the spare tyre to the pressure specified for full load.

Incorrect tyre pressures will impair safety, vehicle handling, comfort and fuel economy and will increase tyre wear.

⚠Warning

If the pressure is too low, this can result in considerable tyre warm-up and internal damage, leading to tread separation and even to tyre blow-out at high speeds.

Tread depth

Check tread depth at regular intervals.

Tyres should be replaced for safety reasons when

1. The tyres are worn to the point where the tread indicators as shown, appear or the cord or fabric is showing.
2. The tread or side wall is cut, split, or cracked deep enough to expose the cord or fabric.
3. The tyre has a bump or bulge in it, indicating some kind of internal damage.
4. The tyre has a puncture, cut or other damage which cannot be repaired because of the size or location of the damage. If in doubt about the extent of the damage to the tyre, have it removed from the wheel and examined by a tyre specialist.

The legally permissible minimum tread depth (1.6 mm) has been reached when the tread has worn down as far as one of the tread wear indicators (TWI). Their position is indicated by markings on the sidewall.

If there is more wear at the front than the rear, swap round front wheels and rear wheels. Ensure that the direction of rotation of the wheels is the same as before.

Tyres age, even if they are not used. We recommend tyre replacement every 6 years.

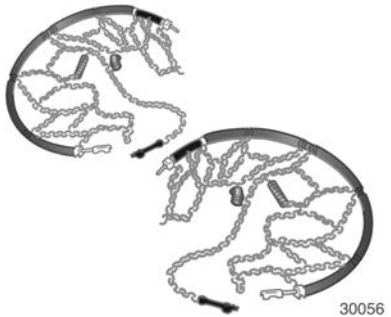
Wheel covers

Wheel covers and tyres that are factory approved for the respective vehicle and comply with all of the relevant wheel and tyre combination requirements must be used.

⚠Warning

Use of unsuitable tyres or wheel covers could lead to sudden pressure loss and thereby accidents.

Tyre chains



Tyre chains are only permitted on the front wheels.

Always use fine mesh chains that add no more than 10 mm to the tyre tread and the inboard sides (including chain lock).

⚠Warning

Damage may lead to tyre blowout.

Tyre repair kit

(If fitted)

Minor damage to the tyre tread or sidewall can be repaired with the tyre repair kit.

Do not remove foreign bodies from the tyres.

Tyre damage exceeding 4 mm or that is at tyre's side wall near the rim cannot be repaired with the tyre repair kit.

⚠Warning

Do not drive faster than 80 km/h.

Do not use for a lengthy period.

Steering and handling may be affected.

If you have a flat tyre:

Apply the parking brake and engage first gear, reverse gear or **P**.

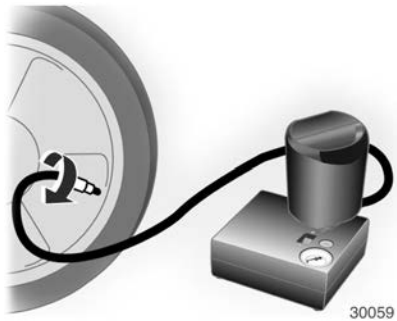
The tyre repair kit is in a compartment under the floor cover in the boot.

1. Take the tyre repair kit from the compartment.
2. Remove the compressor.

3. Remove the electrical connection cable and air hose from the stowage compartments on the underside of the compressor.

4. Screw the compressor air hose to the connection on the sealant bottle.
5. Fit the sealant bottle into the retainer on the compressor.

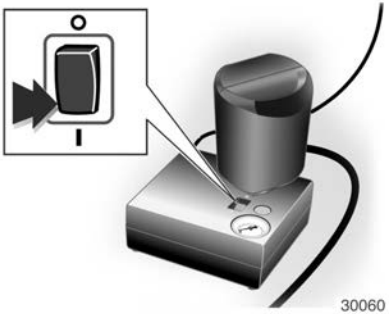
   Set the compressor near the tyre in such a way that the sealant bottle is upright.



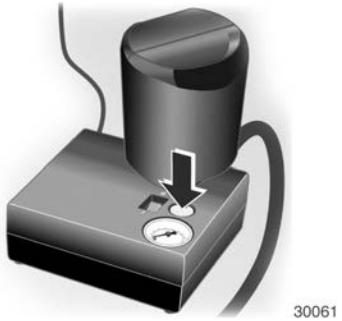
6. Unscrew valve cap from defective tyre.
7. Screw the filler hose to the tyre valve.
8. The switch on the compressor must be set to O.

9. Connect the compressor plug to the accessory socket at the rear of the console.

   To avoid discharging the battery, we recommend running the engine.



10. Set the rocker switch on the compressor to **I**. The tyre is filled with sealant.
11. The compressor pressure gauge briefly indicates up to 90 PSI/620 kPa whilst the sealant bottle is emptying (approx. 30 seconds). Then the pressure starts to drop.
12. All of the sealant is pumped into the tyre. Then the tyre is inflated.
13. The recommended tyre pressure should be obtained within 10 minutes. Tyre pressure ⇨ 166. When the correct pressure is obtained, switch off the compressor.



If the recommended tyre pressure is not obtained within 10 minutes, remove the tyre repair kit. Move the vehicle one tyre rotation. Reattach the tyre repair kit and continue the filling procedure for 10 minutes.

⚠Warning

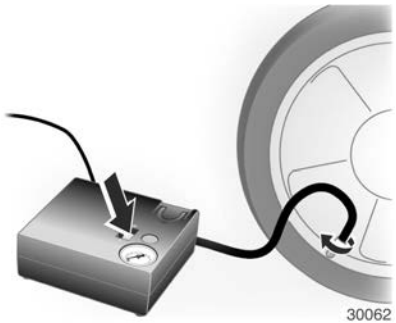
If the recommended pressure cannot be reached after approximately 15 minutes, the vehicle should not be driven. The tyre is too severely damaged and the tyre sealant and air compressor kit cannot inflate the tyre. Disconnect and stow the tyre sealant and air compressor kit back in their original location. Contact your Holden Dealer.

Drain excess tyre pressure with the button over the pressure indicator.

Do not run the compressor longer than 10 minutes.

14. Detach the tyre repair kit. Push catch on bracket to remove sealant bottle from bracket. Screw tyre inflation hose to free connection of sealant bottle. This prevents sealant from escaping. Stow tyre repair kit in load compartment.

15. Remove any excess sealant using a cloth.
16. Take the label indicating maximum permitted speed from the sealant bottle and affix in the driver's field of view.
17. Continue driving immediately so that sealant is evenly distributed in the tyre. After driving approx. 10 km (but no more than 10 minutes), stop and check tyre pressure. Screw compressor air hose directly onto tyre valve and compressor when doing this.



If tyre pressure is more than 20 PSI/138 kPa, set it to the correct value. Repeat the procedure until there is no more loss of pressure.

If the tyre pressure has fallen below 20 PSI/138 kPa, the vehicle must not be used. Seek the assistance of your Holden Dealer.

18. Stow away tyre repair kit in load compartment.

Note

The driving comfort of the repaired tyre is severely affected, therefore have this tyre replaced.

If unusual noise is heard or the compressor becomes hot, turn compressor off for at least 30 minutes.

The built-in safety valve opens at a pressure of 100 PSI/690 kPa.

Note the expiry date of the kit. After this date its sealing capability is not longer guaranteed. Pay attention to storage information on sealant bottle.

Replace the used sealant bottle. Dispose of the bottle as prescribed by applicable laws.

The compressor and sealant can be used from approx. -30 °C.

The adapters supplied can be used to pump up other items e.g. footballs, air mattresses, inflatable dinghies etc. They are located on the underside of the compressor. To remove, screw on compressor air hose and withdraw adapter.

Wheel changing

Some vehicles are equipped with a tyre repair kit instead of a spare wheel ⇨ 168.

⚠Warning

All passengers must be out of the vehicle when it is being jacked.

Only jack the vehicle on hard, level surfaces.

Ensure moving parts of the jack are adequately lubricated before use.

Use the jack only at the designated lifting points. Use in other locations may cause the vehicle to fall off the jack, or may damage the vehicle.

If using a jack (or hoist) other than the jack supplied with the vehicle, refer to the following pages in this chapter for the correct lifting positions.

Do not start or run the engine while the vehicle is supported by the jack.

Use the jack only for lifting the vehicle when changing wheels.

Do not get under a vehicle that is supported by a jack. No person should place any portion of their body under a vehicle that is supported by a jack.

Vehicles with alloy wheels may have a steel spare wheel. Drive carefully and do not exceed 80 km/h when a combination of alloy and steel wheels are fitted on the vehicle. Although the spare tyre was fully inflated when the vehicle was new, it can lose air over time. Check the inflation pressure regularly. After installing the spare wheel on the vehicle, stop as soon as possible to check the inflation pressure is correct. Have the flat tyre repaired or replaced and installed back on the vehicle as soon as possible.

Make the following preparations and observe the following information:

- Park the vehicle on a level, firm and non-skid surface. The front wheels must be in the straight-ahead position.
- Apply the parking brake and engage first gear, reverse gear or **P**.
- Chock the wheel diagonally opposite the flat tyre with a suitable solid object.
- Remove the spare wheel and tools from inside the boot. The tools are located in the storage compartment underneath the spare wheel ⇨ 176.
- Never change more than one wheel at once.
- Use the jack only to change wheels in the event of puncture.
- If the ground on which the vehicle is standing is soft, a solid board (max. 1 cm thick) should be placed under the jack.
- No people or animals may be in the vehicle when it is jacked up.
- Never crawl under a jacked-up vehicle.
- Do not start the vehicle when it is raised on the jack.
- Clean wheel nuts and thread before replacing the wheel.

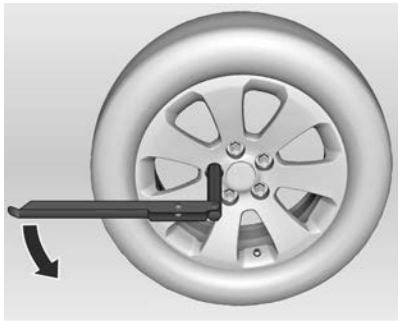
1. Disengage wheel nut caps with a screwdriver and remove. Pull off the wheel cover with the hook. Vehicle tools ⇨ 165.

   Alloy wheels: Disengage wheel nut caps with a screwdriver and remove. To protect the wheel, place a soft cloth between the screwdriver and the alloy wheel.

2. Variant 1:

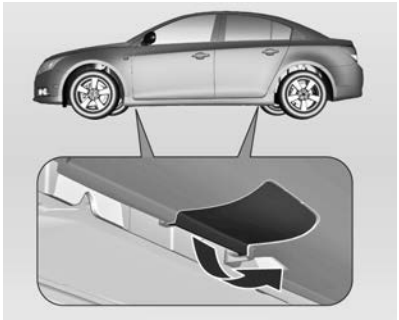
   Attach the wheel wrench, ensuring that it locates securely and loosen each wheel nut by half a turn.

   Variant 2:



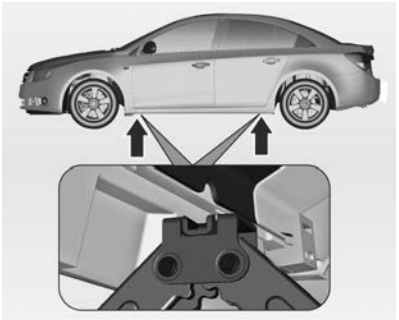
   Fold out the wheel wrench and fit, ensuring that it locates securely, and loosen each wheel nut by half a turn.

3. If the sill panel has a cover:

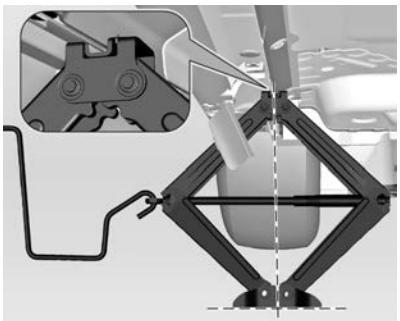


Place hand behind the edge of the cover on the sill panelling.

Pull down and out to remove the cover. The cover is attached by a tether.



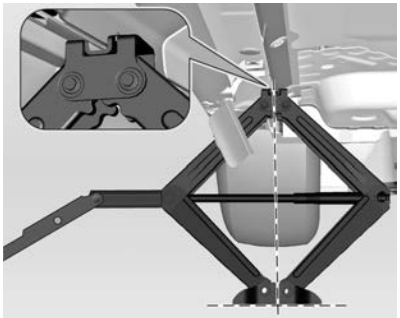
4. Ensure the jack is positioned correctly with the vehicle jacking points.
5. Variant 1:



Set the jack to the necessary height. Position it directly below the jacking point in a manner that prevents it from slipping.

Attach jack handle and with the jack correctly aligned, rotate handle until wheel is clear of the ground.

Variant 2:

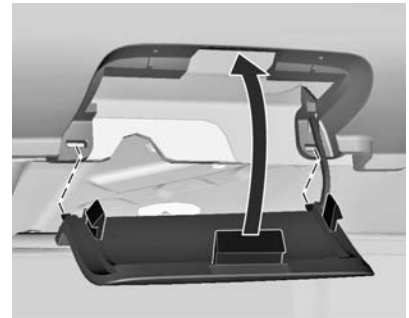


Set the jack to the necessary height. Position it directly below the jacking point in a manner that prevents it from slipping.

Attach wheel wrench and with the jack correctly aligned, rotate wheel wrench until wheel is clear of the ground.

6. Unscrew the wheel nuts.
7. Change the wheel.
8. Screw on the wheel nuts.
9. Lower vehicle.
10. Attach the wheel wrench, ensuring that it locates securely and tighten each nut in a crosswise sequence.
11. Align the valve hole in the wheel cover with the tyre valve before fitting.

    Fit wheel nut caps.
12. If the sill panel has a cover:



Refit cover.

Insert the two rear pins into the holes at the sill panelling and fold up the cover to engage.

13. Stow the replaced wheel ⇨ 176 and the vehicle tools ⇨ 165.
14. Check the tyre pressure of the installed tyre and also the wheel nut torque as soon as possible.

Have the defective tyre renewed or repaired.

⚠Warning

As soon as possible after changing a wheel, you should have the wheels tightened with a torque of 150 Newton metre and have the wheel balanced on the vehicle. Wheel bolts should be tightened evenly to the correct torque in a crisscross pattern while the vehicle is on the ground. Wheel bolts which have not been tightened properly could eventually allow the wheel to come off while the vehicle is moving.

Spare wheel

(If fitted)

The spare wheel is located in the boot beneath the floor covering. It is secured in the recess with a wing nut.

The spare wheel well is not designed for all permitted tyre sizes. If a wheel wider than the spare must be stowed in the spare wheel well after changing wheels, the floor cover can be placed on the projecting wheel.

Directional tyres

Fit directional tyres so that they roll in the direction of travel. The rolling direction is indicated by a symbol (e.g. an arrow) on the sidewall.

The following applies to tyres fitted opposing the rolling direction:

- Driveability may be affected. Have the defective tyre renewed or repaired as soon as possible.
- Do not drive faster than 80 km/h.
- Drive particularly carefully on wet and snow-covered road surfaces.

Jump starting

Do not start with quick charger.

A vehicle with a discharged battery can be started using jump leads and the battery of another vehicle.

⚠Warning

Be extremely careful when starting with jump leads. Any deviation from the following instructions can lead to injuries or damage caused by battery explosion or damage to the electrical systems of both vehicles.

⚠Warning

Avoid contact with eyes, skin, fabrics and painted surfaces. The fluid contains sulphuric acid which can cause injuries and damage in the event of direct contact.

⚠Warning

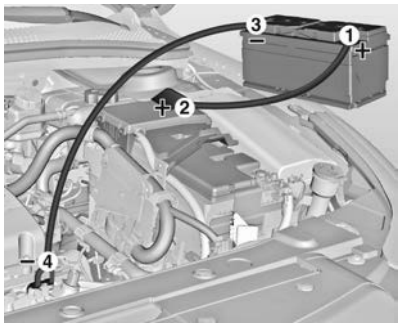
Never expose the battery to naked flames or sparks.

Wear eye protection and protective clothing when handling a battery.

Do not lean over the battery during jump starting.

Do not allow the terminals of one lead to touch those of the other lead.

- A discharged battery can already freeze at temperatures of 0 °C. Defrost the frozen battery before connecting jump leads.
- Use a booster battery with the same voltage (12 volts). Its capacity (Ah) must not be much less than that of the discharged battery.
- Use jump leads with insulated terminals and a cross section of at least 16 mm^2 (25 mm^2 for diesel engines).
- Do not disconnect the discharged battery from the vehicle.
- Switch off all unnecessary electrical consumers.
- The vehicles must not come into contact with each other during the jump starting process.
- Apply the parking brake, transmission in neutral, automatic transmission in **P**.



Lead connection order:

1. Connect the red lead to the positive terminal of the booster battery.
2. Connect the other end of the red lead to the positive terminal of the discharged battery.

3. Connect the black lead to the negative terminal of the booster battery.
4. Connect the other end of the black lead to a vehicle grounding point, such as the engine block or an engine mounting bolt. Connect as far away from the discharged battery as possible.

Route the leads so that they cannot catch on rotating parts in the engine compartment.

To start the engine:

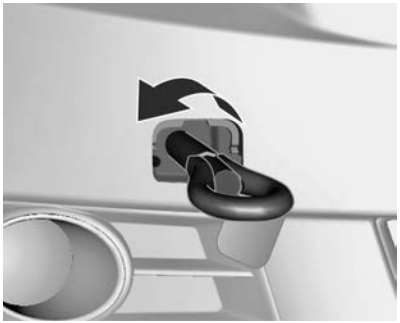
1. Start the engine of the vehicle providing the jump.
2. After 5 minutes, start the other engine. Start attempts should be made for no longer than 15 seconds at intervals of 1 minute.
3. Allow both engines to idle for approx. 3 minutes with the leads connected.
4. Switch on electrical consumers (e.g. headlights, heated rear window) of the vehicle receiving the jump start.
5. Reverse above sequence exactly when removing leads.

Towing

Towing the vehicle

Disengage cap at bottom of front fascia by pushing in at bottom right corner.

The towing eye is stowed with the vehicle tools ⇨ 165.



Screw in the towing eye as far as it will go until it stops in a horizontal position.

Attach a tow rope to the towing eye.

The towing eye must only be used for towing and not for recovering the vehicle.

Switch on ignition to release steering column lock and to permit operation of brake lights, horn and windscreen wipers.

Transmission in neutral.

Caution
Drive slowly. Excessive force can damage the vehicle.

When the engine is not running, considerably more force is needed to brake and steer.

To prevent the entry of exhaust fumes from the towing vehicle, switch on the air recirculation and close the windows.

Vehicles with automatic transmission: The vehicle must be towed facing forwards, not faster than 80 km/h nor further than 100 km. In all other cases and when the transmission is defective, the front axle must be raised off the ground.

Seek the assistance of your Holden Dealer.

After towing, unscrew the towing eye and replace cap.

The best method is to have the vehicle transported using a recovery vehicle.

Appearance care

Exterior care

Washing

The paintwork of your vehicle is exposed to environmental influences. Wash and wax your vehicle regularly. When using automatic vehicle washes, select a programme that includes waxing.

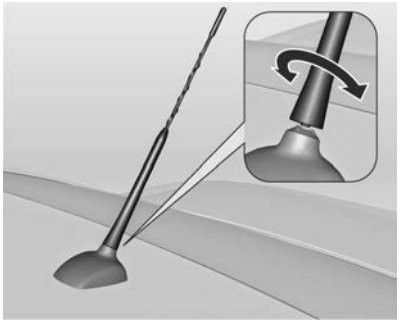
Bird droppings, dead insects, resin, pollen and the like should be cleaned off immediately, as they contain aggressive constituents which can cause paint damage. Failure to do so may result in permanent damage, particularly in hot weather conditions.

Road bloom is a gradual build up of road and environmental grime. This should be removed with a paint cleaner product, in addition to normal washing, on an annual basis.

If using a vehicle wash, comply with the vehicle wash manufacturer's instructions. Never use an automatic wash that requires anything touching

the paint (other than water).The windscreen wipers and rear window wiper must be switched off.

Remove antenna and external accessories such as roof racks etc.



To remove the roof antenna, rotate it anti-clockwise. To install the roof antenna, rotate it clockwise.

If you wash your vehicle by hand, make sure that the insides of the wheel housings are also thoroughly rinsed out.

Clean edges and folds on opened doors and the bonnet, as well as the areas they cover.

Have the door hinges of all doors greased by your Holden Dealer.

⚠Warning

Do not clean the engine compartment with a steam-jet or high-pressure jet cleaner.

Thoroughly rinse and chamois off the vehicle. Rinse chamois frequently. Use a separate chamois for painted and glass surfaces: remnants of wax on the windows will impair vision.

Do not use hard objects to remove spots of tar. Use tar removal spray on painted surfaces.

Exterior lights

Headlight and other light covers are made of plastic. Do not use any abrasive, solvent based cleaners or caustic agents and do not clean them dry.

Polishing and waxing

Wax the vehicle regularly (at the latest when water no longer beads).

Polishing is necessary only if the paint has become dull or if solid deposits have become attached to it.

Paintwork polish with silicone forms a protective film, making waxing unnecessary.

Plastic body parts must not be treated with wax or polishing agents.

Windows and windscreen wiper blades

Use a soft lint-free cloth or chamois leather together with window cleaner and insect remover.

When cleaning the rear window, make sure the heating element inside is not damaged.

Clean smearing wiper blades with a soft cloth and window cleaner.

Wheels and tyres

Do not use high-pressure jet cleaners.

Clean rims with a pH-neutral wheel cleaner.

Rims are painted and can be treated with the same agents as the body.

Paintwork damage

Rectify minor paintwork damage with a touch-up pen before rust forms. Have more extensive damage or rust areas repaired by your Holden Dealer.

Underbody

Some areas of the vehicle underbody have a PVC undercoating while other critical areas have a durable protective wax coating.

After the underbody is washed, check the underbody and have it waxed if necessary.

Bitumen/rubber materials could damage the PVC coating. Have underbody work carried out by your Holden Dealer.

Interior care

Interior and upholstery

Only clean the vehicle interior, including the instrument panel fascia and panelling, with a dry cloth or interior cleaner.

The instrument panel should only be cleaned using a soft damp cloth.

Clean fabric upholstery with a vacuum cleaner and brush. Remove stains with an upholstery cleaner.

Clean seat belts with lukewarm water or interior cleaner.

Caution
Close Velcro fasteners as open Velcro fasteners on clothing could damage seat upholstery.

Leather

Clean regularly using a leather revitaliser or mild detergent.

- Apply revitaliser using a lint-free cloth and rub it onto the leather.
- Do not saturate the leather with the cleaner and do not pour on directly.
- Allow to dry naturally.
- For deeply embedded soil and dirt, use a leather cleaner.
- After using a leather cleaner/ revitaliser, apply a leather protector.

  Leather protectors are designed to repel dirt and provide water resistance.

Note

- Clean and protect leather at least twice a year.
- Do not use synthetic cloths or brushes.
- Leather is a natural product and may have natural markings or variations in graining, colouring and wrinkling.
- Leather has an elasticity and may stretch. This is a natural characteristic of leather.

Plastic and rubber parts

Plastic and rubber parts can be cleaned with the same cleaner used to clean the body of the vehicle. Use interior cleaner if necessary. Do not use any other agent. Avoid solvents and petrol in particular. Do not use high-pressure jet cleaners.

Service and maintenance

General information 182
Recommended fluids, lubricants and parts 183

General information

Service information

In order to ensure economical and safe vehicle operation and to maintain the value of your vehicle, it is of vital importance that all maintenance work is carried out at the proper intervals as specified.

See your Service booklet for the service schedules and for more information.

Engine oil life system (Diesel engine only)

This vehicle has a computer system that lets you know when to change the engine oil and filter. How frequently you have to change the oil depends on your driving patterns, engine RPM and engine temperature. When the system has calculated that oil life has been diminished, it will indicate that an oil change is necessary by displaying vehicle message **CodE 82** or **Change Engine Oil Soon** in the Driver Information Centre (DIC) ⇨ 70.

When the change engine oil soon message displays in the DIC, have the engine oil and filter changed as soon as possible within the next 1,000 km. It is possible that, if you are driving under the best conditions, the oil life system may not indicate that an oil change is necessary for over a year. However, your engine oil and filter must be changed at least once every year in accordance with the service schedules outlined in your Service booklet.

Recommended fluids, lubricants and parts

Recommended fluids and lubricants

Only use products that meet the recommended specifications. Damage resulting from the use of products not in line with these specifications will not be covered by the warranty.

⚠Warning

Operating materials are hazardous and could be poisonous. Handle with care. Pay attention to information given on the containers.

Engine oil

Engine oil is identified by its quality and its viscosity. Quality is more important than viscosity when selecting which engine oil to use. The oil quality ensures e.g. engine cleanliness, wear protection and oil aging control, whereas viscosity grade gives information on the oil's thickness over a temperature range.

Engine oil quality

dexos1® = 1.8L Petrol engine
dexos1® Gen2 = 1.4L Petrol engine
dexos2® = 2.0L Diesel engine

Selecting the right engine oil

Selecting the right engine oil depends on the proper oil specification and viscosity grade.

Use and ask for engine oils with the dexos certification mark. Oils meeting the requirements of your vehicle should have the dexos certification mark on the container. This certification mark indicates that the oil has been approved to the dexos specification.

Your vehicle was filled at the factory with dexos approved engine oil.

Use only engine oil that is approved to the dexos specification or an equivalent engine oil of the appropriate viscosity grade. Failure to use the recommended engine oil or equivalent can result in engine damage not covered by the vehicle warranty.

If you are unsure whether your oil is approved to the dexos specification, ask your service provider.

Use of substitute engine oils if dexos is unavailable: In the event that dexos-approved engine oil is not available at an oil change or for maintaining proper oil level, you may use substitute engine oil of the qualities mentioned above. Use of oils that do not meet the dexos specification, however, may result in reduced performance under certain circumstances.

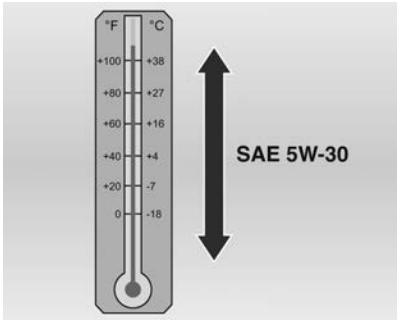
Topping up engine oil

Engine oils of different manufacturers and brands can be mixed as long as they comply with the required engine oil (quality and viscosity).

Engine oil additives

The use of engine oil additives could cause damage and invalidate the warranty.

Engine oil viscosity grades



SAE 5W-30 is the best viscosity grade for your vehicle. Do not use other viscosity grade oils such as SAE 10W-30, 10W-40 or 20W-50.

For acceptable alternative viscosity grade oils ⇨ 188.

When selecting an oil of the appropriate viscosity grade, be sure to always select an oil that meets the dexos specification.

The SAE viscosity grade gives information on the thickness of the oil. Multigrade oil is indicated by two figures.

The first figure, followed by a W, indicates the low temperature viscosity and the second figure indicates the high temperature viscosity.

Coolant and antifreeze

Use only silicate-free long life coolant (LLC) antifreeze.

The system is factory filled with coolant designed for excellent corrosion protection and frost protection down to approx. -38 °C. This concentration should be maintained all year round. The use of additional coolant additives that intend to give additional corrosion protection or seal against minor leaks can cause function problems. Liability for consequences resulting from the use of additional coolant additives will be rejected.

Brake and clutch fluid

Only use DOT4 brake fluid.

Brake fluid will absorb moisture over time, and this will reduce braking effectiveness. The brake fluid should therefore be replaced at the specified interval.

Brake fluid should be stored in a sealed container to avoid water absorption.

Ensure brake fluid does not become contaminated.

Power steering fluid

Only use Dexron VI fluid.

Automatic transmission fluid

Only use Dexron VI fluid.

Technical data

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Vehicle identification

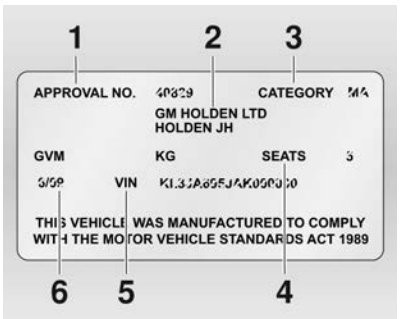
Vehicle Identification Number

The Vehicle Identification Number is visible through the windscreen.

A further label is located in the vehicle floor on the right-hand side under a cover between the front door and seat.

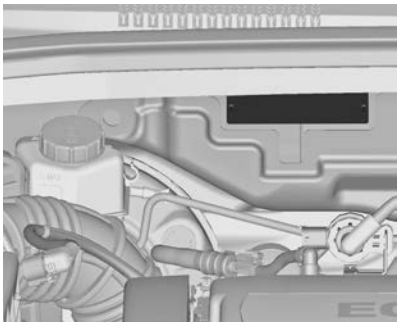
Identification plate

An identification label is located on the front left door frame.

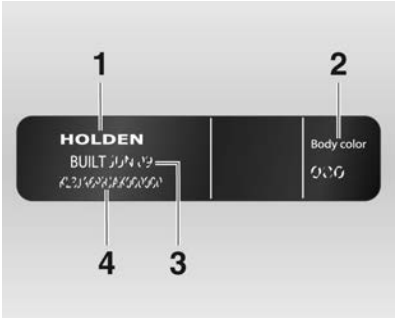


Information on identification label:

1 = Approval number
2 = Manufacturer
3 = Category
4 = Number of seats
5 = Vehicle Identification Number
6 = Build date



An additional identification plate is located under the bonnet on the dash panel.

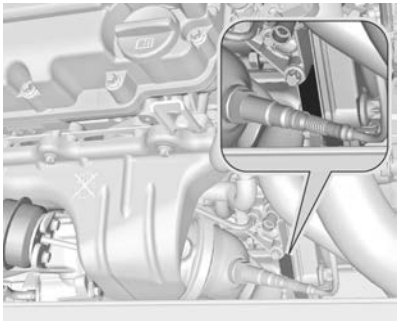


Information on identification plate:

1 = Manufacturer
2 = Body colour
3 = Build date
4 = Vehicle Identification Number

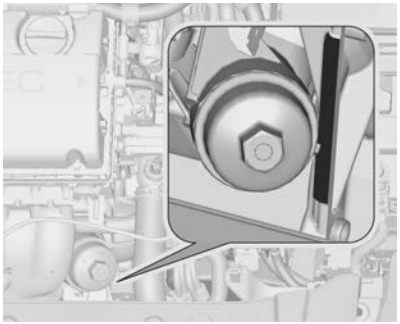
Engine serial number

1.4L Petrol engine



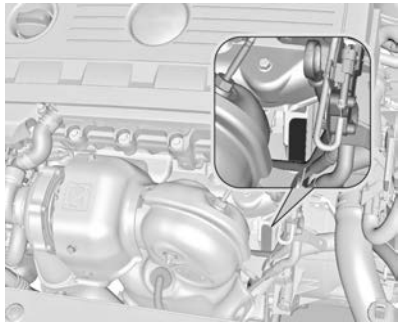
The engine serial number is located in the front part of the engine compartment.

1.8L Petrol engine



The engine serial number is located next to the oil filter.

2.0L Diesel engine



The engine serial number is located under the centre branch of the exhaust manifold.

Vehicle data

Recommended fluids and lubricants

Manufacturer's specifications

Engine oil specification

	Engine oil specification	Best viscosity grade for the vehicle	Alternative viscosity
1.4L Petrol	dexos1® Gen2	5W-30	
1.8L Petrol	dexos1®	5W-30	0W-30
2.0L Diesel	dexos2®	5W-30	0W-30 or 5W-40

Fluids/Lubricants

Usage	Fluid/Lubricant
Coolant specification	50% clean water and 50% Dexcool anti-freeze coolant, conforming to specification number GM6277M
Brake & clutch fluid	Heavy duty brake fluid DOT 4
Power steering fluid	Dexron - VI Auto trans fluid
Automatic transmission fluid	Dexron - VI Auto trans fluid

Usage	Fluid/Lubricant
Manual transmission fluid	1.4L Petrol: SAE 70W
	1.8L Petrol: SAE 75W-90
	2.0L Diesel: SAE 70W

Engine data

Engine	1.4L Petrol	1.8L Petrol	2.0L Diesel
Number of cylinders	4	4	4
Piston displacement [cm^3]	1364	1796	1998
Engine power [kW] at rpm	Refer to holden.com.au		
Torque [Nm] at rpm	Refer to holden.com.au		
Fuel type	Petrol	Petrol	Diesel
Octane rating RON			
Minimum	**91**	**91**	–
Alternative (For slight improvement in engine performance)	95	95	–

Vehicle weight

Additional weight

Maximum vehicle payloads

Vehicle	Occupants (Average 68 kg each)	Luggage (kg)	Total Load (kg)
4 Door sedan	5	68	408
5 Door hatchback	5	68	408

Maximum front and rear axle loads

Vehicle	Front axle loads (kg)	Rear axle loads (kg)
1.4L Petrol	1060	1000
1.8L Petrol	1060	1000
2.0L Diesel	1140	1000

Vehicle dimensions

4 Door sedan

	CD/EQUIPE/CDX	SRi/SRi-V
Length [mm]	4615	4629
Width without exterior mirrors [mm]	1797	1797
Height (without antenna) [mm]	1477	1477
Wheelbase [mm]	2685	2685

5 Door hatchback

	CD/EQUIPE/CDX	SRi/SRi-V
Length [mm]	4519	4543
Width without exterior mirrors [mm]	1797	1797
Height (without antenna) [mm]	1477	1477
Wheelbase [mm]	2685	2685

Capacities

Engine oil

Engine	1.4L Petrol	1.8L Petrol	2.0L Diesel
including Filter [l]	4.0	4.5	5.4

Engine coolant

Engine	1.4L Petrol	1.8L Petrol	2.0L Diesel
capacity [l]	7.1	6.5	7.5

Fuel tank

Petrol/diesel, nominal capacity [l]	60

Customer information

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Customer information

Customer satisfaction procedure

We want you to be happy with your new vehicle, and with the people you deal with while you have the vehicle.

Normally, any problems with the sales, operation, servicing, parts/ accessories or the validity of original equipment supplied with your vehicle will be handled by your Holden Dealer Sales and Service Department.

However, we do realise that despite the best intentions, misunderstandings may sometimes occur.

Therefore, we suggest you discuss any concern you may have with a member of the Holden Dealer management team.

If your concern has not been addressed to your satisfaction by the Sales Manager or Service Manager, please consult the General Manager or the Dealer Principal.

Your concerns should now have been addressed properly. If not, the Holden Customer Assistance office is at your disposal.

Customer assistance offices

Australia

The Holden Customer Assistance representatives can be telephoned from anywhere within Australia for only the cost of a local call.

The contact number is:

1800 033 349

Naturally, telephoning is the quickest and the best way to contact. However, if you prefer to write, the address is:

Holden Customer Assistance Centre
The Manager
GPO Box 1714
3001 Melbourne

Your letter should clearly outline your concern or query and include:

- Your name and address
- Telephone numbers, both private and business
- Servicing dealer's name and address
- Vehicle model
- Vehicle identification number (I.S.O.V.I.N.), refer to the inside front cover of the Service/Warranty Booklet in your vehicle's glove box
- Date of purchase
- Current odometer reading

Most of this information will be found on the Vehicle Identification Certificate, located inside the front cover of the Service/Warranty Booklet in your vehicle's glove box.

Before you write however, remember that the telephone is the quicker and more efficient means of communication.

New Zealand

The information in this Owner's Handbook applies primarily to Australian Holden vehicles and there may be some differences to the Warranty and Owner Assistance provisions for New Zealand.

Applicable details for New Zealand are set out in the Holden Warranty and Owner Assistance Information booklet enclosed in the New Zealand glove box wallet.

New Zealand Assistance can be reached on:

0800 HOLDEN (0800 465 336)

This number provides access to New Zealand Roadside Assistance as well as New Zealand Customer Assistance.

If you prefer to write, the address is:

Holden Customer Assistance Centre
The Manager
PO Box 11195
Ellerslie
1542 Auckland

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